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2011 APR -1 P 3:42

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Phoenix, Arizona 85072-3999

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Susan.Casady@aps.com

ORIGINAL

AZ CORP COMMISSION  
DOCKET CONTROL

April 1, 2011

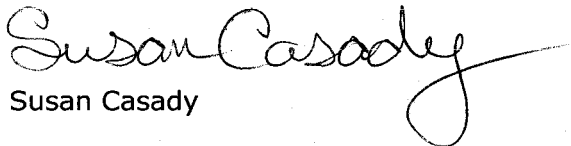
Docket Control  
Arizona Corporation Commission  
1200 West Washington Street  
Phoenix, Arizona 85007

RE: Arizona Public Service Company's Resource Planning Annual Filing for Historical  
Year 2010; Docket No. E-00000A-11-0113

Pursuant to A.A.C. R14-2-703, Arizona Public Service Company is filing its Historical  
Resource Planning report for the 2010. The competitively confidential portion of this  
filing is being provided to Staff pursuant to an executed Protective Agreement in this  
matter.

If you have any questions, please contact Jeff Johnson at (602) 250-2661.

Sincerely,


  
Susan Casady

SC/kc

cc: Brian Bozzo  
Terri Ford  
Barbara Keene

Arizona Corporation Commission  
DOCKETED

APR - 1 2011

DOCKETED BY 

***Arizona Public Service Company***

**RESOURCE PLANNING INFORMATION**

**FOR THE HISTORICAL YEAR 2010**

**In Compliance with  
Arizona Administrative Code R14-2-703**

***April 2011 Filing***

**ARIZONA PUBLIC SERVICE COMPANY  
2011 RESOURCE PLANNING ANNUAL FILING  
FOR HISTORICAL YEAR 2010**

**TABLE OF CONTENTS**

<b><u>A.A.C. Regulation R14-2-703, Sections A &amp; B</u></b>	<b><u>Location</u></b>
<b>A.1</b> Hourly demand for the previous calendar year, disaggregated by: a. Sales to end users; b. Sales for resale; c. Energy losses; and d. Other disposition of energy, such as energy furnished without charge and energy used by the load-serving entity;	Tab I
<b>A.2</b> Coincident peak demand (megawatts) and energy consumption (megawatt-hours) by month for the previous 10 years disaggregated by customer class;	Tab II
<b>A.3</b> Number of customers by customer class for each of the previous 10 years; and	Tab III
<b>A.4</b> Reduction in load (kilowatt and kilowatt-hours) in the previous calendar year due to existing demand management measures, by type of demand management measure.	Tab IV
<b>B.1</b> For each generating unit and purchased power contract for the previous calendar year:  a. In-service date and book life or contract period; b. Type of generating unit or contract; c. The load-serving entity's share of the generating unit's capacity, or of capacity under the contract, in megawatts; d. Maximum generating unit or contract capacity, by hour, day, or month, if such capacity varies during the year; e. Annual capacity factor (generating units only); f. Average heat rate of generating units and, if available, heat rates at selected output levels; g. Average fuel cost for generating units, in dollars per million Btu for each type of fuel; h. Other variable operating and maintenance costs for generating units, in dollars per megawatt hour; i. Purchased power energy costs for long-term contracts, in dollars per megawatt-hour; j. Fixed operating and maintenance costs of generating units, in dollars per megawatt; k. Demand charges for purchased power;	Tab V

**ARIZONA PUBLIC SERVICE COMPANY  
2011 RESOURCE PLANNING ANNUAL FILING  
FOR HISTORICAL YEAR 2010**

**TABLE OF CONTENTS**

<b>A.A.C. Regulation R14-2-703, Sections A &amp; B</b>		<b>Location</b>
<b>B.1 (cont.)</b>		
l. Fuel type for each generating units;		
m. Minimum capacity at which the generating unit would be run or power must be purchased;		
n. Whether, under standard operating procedures, the generating unit must be run if it is available to run;		
o. Description of each generating unit as base load, intermediate, or peaking;		
p. Environmental impacts, including air emission quantities (in metric tons or pounds) and rates (in quantities per megawatt-hour) for carbon dioxide, nitrogen oxides, sulfur dioxide, mercury, particulates, and other air emissions subject to current or expected future environmental regulation;		
q. Water consumption quantities and rates; and		
r. Tons of coal ash produced per generating unit;		
<b>B.2</b>	For the power supply system for the previous calendar year	Tab VI
a. A description of generating unit commitment procedures;		
b. Production cost;		
c. Reserve requirements;		
d. Spinning reserve;		
e. Reliability of generating, transmission, and distribution systems;		
f. Purchase and sale prices, averaged by month, for the aggregate of all purchases and sales related to short-term contracts; and		
g. Energy losses;		
<b>B.3</b>	The level of self-generation in the load-serving entity's service area for the previous calendar year; and	Tab VII
<b>B.4</b>	An explanation of any resources procurement processes used by the load-serving entity during the previous calendar year that did not include use of an RFP, including the exception under which the process was used.	Tab VIII

**ARIZONA PUBLIC SERVICE COMPANY  
2011 RESOURCE PLANNING ANNUAL FILING  
FOR HISTORICAL YEAR 2010**

**Tab I**

**R14-2-703 Section A.1.a**

Attached is the response to this section.

## R14-2-703 Section: A.1a

[illegible]

Arizona Public Service Company  
2011 Resource Planning Filing  
For Historical Year 2010  
R14-2-703 Section: A.1a

323/2010	2.2211	2.1898	2.1540	2.1702	2.2189	2.2770	2.7481	2.7178	2.6458	2.6130	2.5890	2.5580	2.5260	2.4940	2.4620	2.4300	2.3980	2.3660	2.3340	2.3020	2.2700	2.2380	2.2060	2.1740	2.1420	2.1100	2.0780	2.0460	2.0140	1.9820	1.9500	1.9180	1.8860	1.8540	1.8220	1.7900	1.7580	1.7260	1.6940	1.6620	1.6300	1.5980	1.5660	1.5340	1.5020	1.4700	1.4380	1.4060	1.3740	1.3420	1.3100	1.2780	1.2460	1.2140	1.1820	1.1500	1.1180	1.0860	1.0540	1.0220	0.9900	0.9580	0.9260	0.8940	0.8620	0.8300	0.7980	0.7660	0.7340	0.7020	0.6700	0.6380	0.6060	0.5740	0.5420	0.5100	0.4780	0.4460	0.4140	0.3820	0.3500	0.3180	0.2860	0.2540	0.2220	0.1900	0.1580	0.1260	0.0940	0.0620	0.0300	0.0000
324/2010	2.2212	2.1899	2.1541	2.1703	2.2190	2.2771	2.7482	2.7179	2.6465	2.6131	2.5891	2.5581	2.5261	2.4941	2.4621	2.4301	2.3981	2.3661	2.3341	2.3021	2.2701	2.2381	2.2061	2.1741	2.1421	2.1101	2.0781	2.0461	2.0141	1.9821	1.9501	1.9181	1.8861	1.8541	1.8221	1.7901	1.7581	1.7261	1.6941	1.6621	1.6301	1.5981	1.5661	1.5341	1.5021	1.4701	1.4381	1.4061	1.3741	1.3421	1.3101	1.2781	1.2461	1.2141	1.1821	1.1501	1.1181	1.0861	1.0541	1.0221	0.9901	0.9581	0.9261	0.8941	0.8621	0.8301	0.7981	0.7661	0.7341	0.7021	0.6701	0.6381	0.6061	0.5741	0.5421	0.5101	0.4781	0.4461	0.4141	0.3821	0.3501	0.3181	0.2861	0.2541	0.2221	0.1901	0.1581	0.1261	0.0941	0.0621	0.0301	0.0001
325/2010	2.2213	2.1900	2.1542	2.1704	2.2191	2.2772	2.7483	2.7180	2.6466	2.6132	2.5892	2.5582	2.5262	2.4942	2.4622	2.4302	2.3982	2.3662	2.3342	2.3022	2.2702	2.2382	2.2062	2.1742	2.1422	2.1102	2.0782	2.0462	2.0142	1.9822	1.9502	1.9182	1.8862	1.8542	1.8222	1.7902	1.7582	1.7262	1.6942	1.6622	1.6302	1.5982	1.5662	1.5342	1.5022	1.4702	1.4382	1.4062	1.3742	1.3422	1.3102	1.2782	1.2462	1.2142	1.1822	1.1502	1.1182	1.0862	1.0542	1.0222	0.9902	0.9582	0.9262	0.8942	0.8622	0.8302	0.7982	0.7662	0.7342	0.7022	0.6702	0.6382	0.6062	0.5742	0.5422	0.5102	0.4782	0.4462	0.4142	0.3822	0.3502	0.3182	0.2862	0.2542	0.2222	0.1902	0.1582	0.1262	0.0942	0.0622	0.0302	0.0002
326/2010	2.2214	2.1901	2.1543	2.1705	2.2192	2.2773	2.7484	2.7181	2.6467	2.6133	2.5893	2.5583	2.5263	2.4943	2.4623	2.4303	2.3983	2.3663	2.3343	2.3023	2.2703	2.2383	2.2063	2.1743	2.1423	2.1103	2.0783	2.0463	2.0143	1.9823	1.9503	1.9183	1.8863	1.8543	1.8223	1.7903	1.7583	1.7263	1.6943	1.6623	1.6303	1.5983	1.5663	1.5343	1.5023	1.4703	1.4383	1.4063	1.3743	1.3423	1.3103	1.2783	1.2463	1.2143	1.1823	1.1503	1.1183	1.0863	1.0543	1.0223	0.9903	0.9583	0.9263	0.8943	0.8623	0.8303	0.7983	0.7663	0.7343	0.7023	0.6703	0.6383	0.6063	0.5743	0.5423	0.5103	0.4783	0.4463	0.4143	0.3823	0.3503	0.3183	0.2863	0.2543	0.2223	0.1903	0.1583	0.1263	0.0943	0.0623		

Arizona Public Service Company  
2011 Resource Planning Filing  
For Historical Year 2010  
R14-2-703 Section: A.1a

61342010	2.5382	2.4016	2.3131	2.2275	2.2284	2.1491	2.1661	2.3351	2.5094	2.7457	3.3336	2.9715	3.1644	3.3425	3.5076	3.6555	3.7581	3.8561	3.9045	3.9329	3.6852	3.2818	2.8979
6142010	2.7086	2.5454	2.4268	2.3858	2.4121	2.2449	2.2649	2.8904	2.1259	2.7457	3.3336	2.9715	3.1644	3.3425	3.5076	3.6555	3.7581	3.8561	3.9045	3.9329	3.6852	3.2818	2.8979
6152010	2.9736	2.7801	2.6838	2.5611	2.7082	2.5982	2.6494	2.8904	3.1259	2.7457	3.3336	2.9715	3.1644	3.3425	3.5076	3.6555	3.7581	3.8561	3.9045	3.9329	3.6852	3.2818	2.8979
6162010	3.1296	2.9225	2.7871	2.6968	2.7056	2.7096	2.7872	3.1688	3.2976	3.0281	3.5833	3.3855	3.4524	3.4706	3.4893	3.4786	3.4851	3.4926	3.4834	3.4726	3.4829	3.4834	3.4829
6172010	3.3637	2.6259	2.6573	2.6587	2.6275	2.6215	2.8071	3.0655	3.3083	3.4615	3.7615	3.7200	3.3917	3.4609	3.4829	3.4881	3.4829	3.4934	3.4881	3.4744	3.4644	3.4587	3.4587
6182010	3.0065	2.8914	2.7391	2.5828	2.6259	2.5737	2.7484	3.0084	3.2333	3.2666	3.5819	3.8422	3.4444	3.4819	3.4690	3.4848	3.4848	3.4931	3.4816	3.4714	3.4644	3.4587	3.4587
6192010	3.0793	2.8521	2.6863	2.5828	2.4974	2.4128	2.4669	2.7738	2.9983	3.2666	3.5819	3.8422	3.4444	3.4819	3.4690	3.4848	3.4848	3.4931	3.4816	3.4714	3.4644	3.4587	3.4587
6202010	3.1141	2.8974	2.6604	2.5396	2.6044	2.4136	2.4669	2.7738	2.9983	3.2666	3.5819	3.8422	3.4444	3.4819	3.4690	3.4848	3.4848	3.4931	3.4816	3.4714	3.4644	3.4587	3.4587
6212010	3.0245	2.8135	2.6651	2.5889	2.5932	2.4589	2.7542	3.0042	3.2310	3.4692	3.7483	3.9055	3.4065	3.4208	3.4302	3.4302	3.4302	3.4302	3.4302	3.4302	3.4302	3.4302	3.4302
6222010	3.2593	2.5904	2.5888	2.5888	2.5888	2.5888	2.5888	3.0042	3.2310	3.4692	3.7483	3.9055	3.4065	3.4208	3.4302	3.4302	3.4302	3.4302	3.4302	3.4302	3.4302	3.4302	3.4302
6232010	3.0293	2.8649	2.6868	2.6074	2.5999	2.6173	2.7796	3.0455	3.2739	3.3595	3.6969	3.9357	3.4138	3.4138	3.4138	3.4138	3.4138	3.4138	3.4138	3.4138	3.4138	3.4138	3.4138
6242010	3.3029	2.9843	2.8288	2.7268	2.6983	2.6941	2.8655	3.1564	3.2739	3.3595	3.6969	3.9357	3.4138	3.4138	3.4138	3.4138	3.4138	3.4138	3.4138	3.4138	3.4138	3.4138	3.4138
6252010	3.3604	2.9123	2.8052	2.7167	2.6834	2.6834	2.8655	3.1564	3.2739	3.3595	3.6969	3.9357	3.4138	3.4138	3.4138	3.4138	3.4138	3.4138	3.4138	3.4138	3.4138	3.4138	3.4138
6262010	3.4445	3.1737	3.0265	2.8693	2.7883	2.6820	2.7666	3.0418	3.3852	3.4721	3.4833	3.4721	3.4833	3.4721	3.4833	3.4721	3.4833	3.4721	3.4833	3.4721	3.4833	3.4721	3.4833
6272010	3.1936	2.9897	2.8373	2.7048	2.6466	2.5280	2.6803	2.8235	3.1372	3.3454	3.4865	3.4865	3.4865	3.4865	3.4865	3.4865	3.4865	3.4865	3.4865	3.4865	3.4865	3.4865	3.4865
6282010	3.2315	3.0159	2.8677	2.7766																			



Arizona Public Service Company  
2011 Resource Planning Filing  
For Historical Year 2010  
R14-2-703 Section: A.1a

9/30/2010	3,336.0	3,122.3	2,977.4	2,861.4	2,826.0	2,912.9	3,042.9	3,247.7	3,497.0	3,824.8	4,214.3	4,586.3	4,884.7	5,235.5	5,524.7	5,717.1	5,754.0	5,665.5	5,360.1	5,141.6	4,866.5	4,619.5	4,263.1	3,932.9
9/42/2010	3,365.7	3,472.7	3,289.6	3,142.0	3,063.7	3,067.2	3,042.9	3,247.7	3,497.0	3,824.8	4,214.3	4,586.3	4,884.7	5,235.5	5,524.7	5,717.1	5,754.0	5,665.5	5,360.1	5,141.6	4,866.5	4,619.5	4,263.1	3,932.9
9/46/2010	3,357.9	3,307.8	3,256.6	3,101.1	3,024.8	2,901.4	2,827.6	3,053.2	3,268.0	3,624.2	4,197.5	4,550.3	4,862.1	5,156.1	5,380.1	5,492.4	5,518.4	5,399.4	5,121.5	4,938.3	4,724.0	4,489.4	4,239.5	3,717.8
9/50/2010	3,378.0	3,359.5	3,341.2	3,311.3	3,226.7	3,229.8	3,167.2	3,325.5	3,650.8	3,991.4	4,376.1	4,695.0	4,949.1	5,184.4	5,346.0	5,445.8	5,472.1	5,375.9	5,108.7	4,915.7	4,680.6	4,439.4	4,085.5	3,884.4
9/54/2010	3,368.5	3,508.1	3,378.8	3,257.7	3,216.7	3,226.7	3,452.8	3,627.7	3,825.7	4,025.4	4,294.5	4,591.6	4,794.4	4,921.5	5,066.0	5,170.7	5,126.0	5,000.7	4,791.5	4,562.9	4,324.2	4,065.5	3,785.1	3,501.1
9/58/2010	3,299.0	3,127.2	3,000.7	2,897.0	2,871.4	2,899.0	3,158.7	3,302.4	3,468.3	3,702.6	3,947.8	4,104.5	4,341.3	4,530.4	4,670.6	4,786.9	4,770.1	4,600.8	4,338.7	4,083.3	3,863.3	3,604.3	3,353.3	3,066.9
9/62/2010	2,866.8	2,701.3	2,589.1	2,482.5	2,447.3	2,466.4	2,729.4	2,862.6	2,963.5	3,174.1	3,385.8	3,567.3	3,646.5	3,815.2	3,981.6	4,104.4	4,094.7	4,000.8	3,793.9	3,591.0	3,366.3	3,104.3	2,857.7	2,594.9
9/10/2010	2,866.8	2,701.3	2,589.1	2,482.5	2,447.3	2,466.4	2,729.4	2,862.6	2,963.5	3,174.1	3,385.8	3,567.3	3,646.5	3,815.2	3,981.6	4,104.4	4,094.7	4,000.8	3,793.9	3,591.0	3,366.3	3,104.3	2,857.7	2,594.9
9/14/2010	2,789.3	2,636.9	2,509.9	2,402.4	2,412.0	2,425.7	2,691.4	2,826.6	2,926.5	3,046.7	3,251.7	3,406.0	3,495.6	3,650.8	3,816.1	3,942.4	4,031.0	4,080.8	3,867.7	3,650.8	3,426.7	3,175.4	2,929.0	2,684.5
9/18/2010	2,847.4	2,681.9	2,549.4	2,441.5	2,420.8	2,445.7	2,704.9	2,840.6	2,940.5	3,060.8	3,266.1	3,420.4	3,495.6	3,650.8	3,816.1	3,942.4	4,031.0	4,080.8	3,867.7	3,650.8	3,426.7	3,175.4	2,929.0	2,684.5
9/22/2010	2,847.4	2,681.9	2,549.4	2,441.5	2,420.8	2,445.7	2,704.9	2,840.6	2,940.5	3,060.8	3,266.1	3,420.4	3,495.6	3,650.8	3,816.1	3,942.4	4,031.0	4,080.8	3,867.7	3,650.8	3,426.7	3,175.4	2,929.0	2,684.5
9/26/2010	2,847.4	2,681.9	2,549.4	2,441.5	2,420.8	2,445.7	2,704.9	2,840.6	2,940.5	3,060.8	3,266.1	3,420.4	3,495.6	3,650.8	3,816.1	3,942.4	4,031.0	4,080.8	3,867.7	3,650.8	3,426.7	3,175.4	2,929.0	2,684.5
9/30/2010	2,847.4	2,681.9	2,549.4	2,441.5	2,420.8	2,445.7	2,704.9	2,840.6	2,940.5	3,060.8	3,266.1	3,420.4	3,495.6	3,650.8	3,816.1	3,942.4	4,031.0	4,080.8	3,867.7	3,650.8	3,426.7	3,175.4	2,929.0	2,684.5
10/3/2010	2,847.4	2,681.9	2,549.4	2,441.5	2,420.8	2,445.7	2,704.9	2,840.6	2,940.5	3,060.8	3,266.1	3,420.4	3,495.6	3,650.8	3,816.1	3,942.4	4,031.0	4,080.8	3,867.7	3,650.8	3,426.7	3,175.4	2,929.0	2,684.5
10/7/2010	2,847.4	2,681.9	2,549.4	2,441.5	2,420.8	2,445.7	2,704.9	2,840.6	2,940.5	3,060.8	3,266.1	3,420.4	3,495.6	3,650.8	3,816.1	3,942.4	4,031.0	4,080.8	3,867.7	3,650.8	3,426.7	3,175.4	2,929.0	2,684.5
10/11/2010	2,847.4	2,681.9	2,549.4	2,441.5	2,420.8	2,445.7	2,704.9	2,840.6	2,940.5	3,060.8	3,266.1	3,420.4	3,495.6	3,650.8	3,816.1	3,942.4	4,031.0	4,080.8	3,867.7	3,650.8	3,426.7	3,175.4	2,929.0	2,684.5
10/15/2010	2,847.4	2,681.9	2,549.4	2,441.5	2,420.8	2,445.7	2,704.9	2,840.6	2,940.5	3,060.8	3,266.1	3,420.4	3,495.6	3,650.8	3,816.1	3,942.4	4,031.0	4,080.8	3,867.7	3,650.8	3,426.7	3,175.4	2,929.0	2,684.5
10/19/2010	2,847.4	2,681.9	2,549.4	2,441.5	2,420.8	2,445.7	2,704.9	2,840.6	2,940.5	3,060.8	3,266.1	3,420.4	3,495.6	3,650.8	3,816.1	3,942.4	4,031.0	4,080.8	3,867.7	3,650.8	3,426.7	3,175.4	2,929.0	2,684.5
10/23/2010	2,847.4	2,681.9	2,549.4	2,441.5	2,420.8	2,445.7	2,704.9	2,840.6	2,940.5	3,060.8	3,266.1	3,420.4	3,495.6	3,650.8	3,816.1	3,942.4	4,031.0	4,080.8	3,867.7	3,650.8	3,426.7	3,175.4	2,929.0	2,684.5
10/27/2010	2,847.4	2,681.9	2,549.4	2,441.5	2,420.8	2,445.7	2,704.9	2,840.6	2,940.5	3,060.8	3,266.1	3,420.4	3,495.6	3,650.8	3,816.1	3,942.4	4,031.0	4,080.8	3,867.7	3,650.8	3,426.7	3,175.4	2,929.0	2,684.5
10/31/2010	2,847.4	2,681.9	2,549.4	2,441.5	2,420.8	2,445.7	2,704.9	2,840.6	2,940.5	3,060.8	3,266.1	3,420.4	3,495.6	3,650.8	3,816.1	3,942.4	4,031.0	4,080.8	3,867.7	3,650.8	3,426.7	3,175.4	2,929.0	2,684.5
11/4/2010	2,847.4	2,681.9	2,549.4	2,441.5	2,420.8	2,445.7	2,704.9	2,840.6	2,940.5	3,060.8	3,266.1	3,420.4	3,495.6	3,650.8	3,816.1	3,942.4	4,031.0	4,080.8	3,867.7	3,650.8	3,426.7	3,175.4	2,929.0	2,684.5
11/8/2010	2,847.4	2,681.9	2,549.4	2,441.5	2,420.8	2,445.7	2,704.9	2,840.6	2,940.5	3,060.8	3,266.1	3,420.4	3,495.6	3,650.8	3,816.1	3,942.4	4,031.0	4,080.8	3,867.7	3,650.8	3,426.7	3,175.4	2,929.0	2,684.5
11/12/2010	2,847.4	2,681.9	2,549.4	2,441.5	2,420.8	2,445.7	2,704.9	2,840.6	2,940.5	3,060.8	3,266.1	3,420.4	3,495.6	3,650.8	3,816.1	3,942.4	4,031.0	4,080.8	3,867.7	3,650.8	3,426.7	3,175.4	2,929.0	2,684.5
11/16/2010	2,847.4	2,681.9	2,549.4	2,441.5	2,420.8	2,445.7	2,704.9	2,840.6	2,940.5	3,060.8	3,266.1	3,420.4	3,495.6	3,650.8	3,816.1	3,942.4	4,031.0	4,080.8	3,867.7	3,650.8	3,426.7	3,175.4	2,929.0	2,684.5
11/20/2010	2,847.4	2,681.9	2,549.4	2,441.5	2,420.8	2,445.7	2,704.9	2,840.6	2,940.5	3,060.8	3,266.1	3,420.4	3,495.6	3,650.8	3,816.1	3,942.4	4,031.0	4,080.8	3,867.7	3,650.8	3,426.7	3,175.4	2,929.0	2,684.5
11/24/2010	2,847.4	2,681.9	2,549.4	2,441.5	2,420.8	2,445.7	2,704.9	2,840.6	2,940.5	3,060.8	3,266.1	3,420.4	3,495.6	3,650.8	3,816.1	3,942.4	4,031.0	4,080.8	3,867.7	3,650.8	3,426.7	3,175.4	2,929.0	2,684.5
11/28/2010	2,847.4	2,681.9	2,549.4	2,441.5	2,420.8	2,445.7	2,704.9	2,840.6	2,940.5	3,060.8	3,266.1	3,420.4	3,495.6	3,650.8	3,816.1	3,942.4	4,031.0	4,080.8	3,867.7	3,650.8	3,426.7	3,175.4	2,929.0	2,684.5
12/2/2010	2,847.4	2,681.9	2,549.4	2,441.5	2,420.8	2,445.7	2,704.9	2,840.6	2,940.5	3,060.8	3,266.1	3,420.4	3,495.6	3,650.8	3,816.1	3,942.4	4,031.0	4,080.8	3,867.7	3,650.8	3,426.7	3,175.4	2,929.0	2,684.5
12/6/2010	2,847.4	2,681.9	2,549.4	2,441.5	2,420.8	2,445.7	2,704.9	2,840.6	2,940.5	3,060.8	3,266.1	3,420.4	3,495.6	3,650.8	3,816.1	3,942.4	4,031.0	4,080.8	3,867.7	3,650.8	3,426.7	3,175.4	2,929.0	2,684.5
12/10/2010	2,847.4	2,681.9	2,549.4	2,441.5	2,420.8	2,445.7	2,704.9	2,840.6	2,940.5	3,060.8	3,266.1	3,420.4	3,495.6	3,650.8	3,816.1	3,942.4	4,031.0	4,080.8	3,867.7	3,650.8	3,426.7	3,175.4	2,929.0	2,684.5
12/14/2010	2,847.4	2,681.9	2,549.4	2,441.5	2,420.8	2,445.7	2,704.9	2,840.6	2,940.5	3,060.8	3,266.1	3,420.4	3,495.6	3,650.8	3,816.1	3,942.4	4,031.0	4,080.8	3,867.7	3,650.8	3,426.7	3,175.4	2,929.0	2,684.5
12/18/2010	2,847.4	2,681.9	2,549.4	2,441.5	2,420.8	2,445.7	2,704.9	2,840.6	2,940.5	3,060.8	3,266.1	3,420.4	3,495.6	3,650.8	3,816.1	3,942.4	4,031.0	4,080.8	3,867.7	3,650.8	3,426.7	3,175.4	2,929.0	2,684.5
12/22/2010	2,847.4	2,681.9	2,549.4	2,441.5	2,420.8	2,445.7	2,704.9	2,840.6	2,940.5	3,060.8	3,266.1	3,420.4	3,495.6	3,650.8	3,816.1	3,942.4	4,031.0	4,080.8	3,867.7	3,650.8	3,426.7	3,175.4	2,929.0	2,684.5
12/26/2010	2,847.4	2,681.9	2,549.4	2,441.5	2,420.8	2,445.7	2,704.9	2,840.6	2,940.5	3,060.8	3,266.1	3,420.4	3,495.6	3,650.8	3,816.1	3,942.4	4,031.0	4,080.8	3,867.7	3,650.8	3,426.7	3,175.4	2,929.0	2,684.5
12/30/2010	2,847.4	2,681.9	2,549.4	2,441.5	2,420.8	2,445.7	2,704.9	2,840.6	2,940.5	3,060.8	3,266.1	3,420.4	3,495.6	3,650.8	3,816.1	3,942.4	4,031.0	4,080.8	3,867.7	3,650.8	3,426.7	3,175.4	2,929.0	2,684.5

**R14-2-703 Section: A.1a**

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**ARIZONA PUBLIC SERVICE COMPANY  
2011 RESOURCE PLANNING ANNUAL FILING  
FOR HISTORICAL YEAR 2010**

**Tab I**

**R14-2-703 Section: A.1.b**

Hourly demand for the previous calendar year is not available. Monthly megawatt-hours (MWh) are listed below.

		SALES FOR RESALE											
		2010											
		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ENERGY (MWH)		39501	32506	44765	50123	64403	86219	90792	85504	69617	53534	37806	37856

**ARIZONA PUBLIC SERVICE COMPANY  
2011 RESOURCE PLANNING ANNUAL FILING  
FOR HISTORICAL YEAR 2010**

**Tab I**

**R14-2-703 Section: A.1.c**

Hourly demand for the previous calendar year is not available. Monthly MWh are listed below.

	ENERGY LOSSES											
	2010											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ENERGY (MWH)	156,392	141,283	133,303	116,069	147,852	196,495	230,140	210,885	191,301	179,374	173,616	179,836

Energy losses shown are exclusive of APS unregulated activities.

**ARIZONA PUBLIC SERVICE COMPANY  
2011 RESOURCE PLANNING ANNUAL FILING  
FOR HISTORICAL YEAR 2010**

**Tab I**

**R14-2-703 Section: A.1.d**

Hourly demand for the previous calendar year is not available. Monthly MWh are listed below.

	COMPANY USE											
	2010											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ENERGY (MWH)	5111	4823	4830	4476	4429	4789	5615	6587	6729	7149	8390	5077

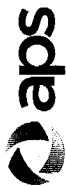
**ARIZONA PUBLIC SERVICE COMPANY  
2011 RESOURCE PLANNING ANNUAL FILING  
FOR HISTORICAL YEAR 2010**

**Tab II**

**R14-2-703 Section A.2**

Coincident peak demand (megawatts) and energy consumption (megawatt-hours) by month for the previous 10 years disaggregated by customer class.

Information for the twelve months ending December 2010 is attached. The previous ten years of coincident peak demand and energy consumption can be found in previous versions of Arizona Public Service Company's Resource Planning Annual Filings on file with the Arizona Corporation Commission.



Load Research Cost of Service Data  
Test Year Ended December 31, 2010

\*\*\* Total Residential \*\*\*

SUMMER (May-Oct)	WINTER (Nov-Apr)	ANNUAL
7,388.3	6,254.0	7,388.3

Summation Ind Max by Season
7,388.3
6,580.8
7,097.4

Class Peak by Season
4,174.9
4,311.1

Coincident Peak by Season
3,448.3

Energy Summation by Season
2,684,963
33.1%
5,428,778
66.9%
8,113,741

Customer Averages by Season
986,074
993,903
989,989

Seasonal Factors
0.467
25.1%
43.0%
53.7%

Seasonal Averages
1,372
6.85
2.95

Jan 10	Feb 10	Mar 10	Apr 10	May 10	Jun 10	Jul 10	Aug 10	Sep 10	Oct 10	Nov 10	Dec 10
--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------

SUMMATION IND MAX (MW)
Non-Timed
5,500.2
On-Peak
4,300.0
Off-Peak
4,355.7

CLASS PEAK (MW)
On-Peak Weighted
1,666.6
Off-Peak Weighted
1,998.9

COINCIDENT (MW)
System
Time
25h@0800
23rd@0800
10h@0800
27h@1700
21st@1700
30th@1700
15th@1700
24h@1600
3rd@1700
1st@1600
30th@0800
31st@1900

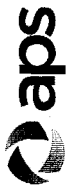
ENERGY (MWH)
On-Peak
%
Off-Peak
%
Total

CUSTOMERS
Monthly Count
983,081
995,062
992,932
988,047
986,388
986,922
985,128
984,331
985,628
988,907
986,422

FACTORS
Coincident Factor (CP)
0.318
0.327
0.312
0.249
0.336
0.454
0.467
0.452
0.437
0.420
0.320
0.315
Load Factor (Max) %
25.0%
20.1%
18.9%
21.2%
26.8%
33.0%
31.7%
28.1%
21.8%
16.6%
19.9%
Load Factor (NCP) %
68.7%
52.6%
60.3%
51.7%
48.4%
47.4%
56.5%
54.0%
49.8%
41.1%
41.7%
47.4%
Load Factor (CP) %
78.6%
61.4%
68.4%
76.1%
63.0%
58.5%
70.6%
70.3%
64.4%
52.0%
51.8%
63.2%

CUSTOMER AVERAGES
Energy Use (kWh)
1,009
5.54
1.76

TOU Periods - All Months:
On-Peak
Off-Peak
9 am - 9 pm, M-F
9 am - 9 pm, M-F & All Weekends



Load Research Cost of Service Data  
Test Year Ended December 31, 2010

\*\*\*General Service E-20\*\*\*

	Jan 10	Feb 10	Mar 10	Apr 10	May 10	Jun 10	Jul 10	Aug 10	Sep 10	Oct 10	Nov 10	Dec 10
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**SUMMATION IND MAX (MW)**

Non-Timed	10.9	9.9	9.7	12.3	14.9	18.1	18.9	23.5	22.7	19.2	14.6	13.2
On-Peak	8.4	7.8	8.2	9.7	12.8	14.9	14.6	18.5	17.7	14.6	11.7	10.8
Off-Peak	10.8	9.7	9.3	11.9	13.9	17.6	18.5	23.0	22.4	19.0	13.7	12.6

**CLASS PEAK (MW)**

On-Peak	4.4	4.8	4.6	5.3	6.6	8.8	9.6	10.4	10.3	8.5	6.3	6.6
Off-Peak	7.8	6.8	6.2	8.6	10.9	14.9	16.9	17.7	18.3	15.7	9.8	8.3

**COINCIDENT (MW)**

System	2.6	2.1	2.3	2.6	2.7	3.6	3.3	5.5	3.8	3.6	2.7	3.8
Time	25th@0800	23rd@0800	10th@0800	27th@1700	21st@1700	30th@1700	15th@1700	24th@1600	3rd@1700	1st@1600	30th@0800	31st@1900

**ENERGY (MWH)**

On-Peak	555	564	667	726	829	1,258	1,635	1,587	1,626	932	809	700
%	27.9%	31.0%	32.8%	34.2%	33.3%	37.5%	34.7%	35.2%	37.0%	32.0%	33.1%	32.1%
Off-Peak	1,436	1,257	1,377	1,399	1,659	2,095	3,075	2,916	2,773	1,985	1,635	1,483
%	72.1%	69.0%	67.4%	65.8%	66.7%	62.5%	65.3%	64.8%	63.0%	68.0%	66.9%	67.9%
Total	1,991	1,821	2,044	2,125	2,488	3,353	4,710	4,503	4,399	2,917	2,444	2,183

**CUSTOMERS**

Monthly Count	325	327	337	334	329	338	339	340	340	341	342	344
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**FACTORS**

All load factors are calculated based on 730 hours per month.

Coincident Factor (CP)	0.237	0.213	0.237	0.212	0.182	0.199	0.175	0.234	0.167	0.187	0.185	0.288
Load Factor (Max) %	24.9%	25.3%	28.9%	23.7%	22.9%	25.3%	34.2%	26.3%	26.6%	20.8%	23.0%	22.7%
Load Factor (NCP) %	34.9%	36.8%	45.4%	34.0%	31.3%	30.9%	38.1%	34.9%	33.0%	25.4%	34.0%	36.2%
Load Factor (CP) %	104.9%	118.8%	121.7%	112.0%	126.2%	127.6%	195.5%	112.2%	158.6%	111.0%	124.0%	78.7%

**CUSTOMER AVERAGES**

Energy Use (kWh)	6,126	5,569	6,065	6,362	7,562	9,920	13,894	13,244	12,938	8,554	7,146	6,346
Ind. Max Demand (kW)	33.69	30.19	28.79	36.78	45.16	53.63	55.71	69.10	66.73	56.44	42.59	38.36
Coincident Demand (kW)	8.00	6.42	6.82	7.78	8.21	10.65	9.73	16.18	11.18	10.56	7.89	11.05

TOU Periods - All Months:	On-Peak 11 am - 9 pm, M-F	Off-Peak 9 pm - 11 am, M-F & All Weekends
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SUMMER (May-Oct)	WINTER (Nov-Apr)	ANNUAL
---------------------	---------------------	--------

Summation Ind Max by Season

23.5	14.6	23.5
18.5	11.7	18.5
23.0	13.7	23.0

Class Peak by Season

10.4	6.6	10.4
18.3	9.8	18.3

Coincident Peak by Season

5.5	3.8	5.5
-----	-----	-----

Energy Summation by Season

7,868	4,022	11,889
35.2%	31.9%	34.0%
14,502	8,586	23,089
64.8%	68.1%	66.0%
22,370	12,608	34,978

Customer Averages by Season

338	335	336
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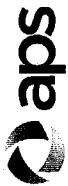
Seasonal Factors

0.234	0.261	0.234
21.7%	19.8%	17.0%
28.0%	29.3%	21.9%
154.8%	75.8%	121.0%

Seasonal Averages

11,019	6,269	8,644
57.79	35.07	46.43
11.08	8.00	9.54



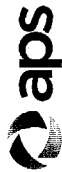


Load Research Cost of Service Data  
Test Year Ended December 31, 2010

\*\*\* General Service E-221 \*\*\*

	Jan 10	Feb 10	Mar 10	Apr 10	May 10	Jun 10	Jul 10	Aug 10	Sep 10	Oct 10	Nov 10	Dec 10
<b>SUMMATION IND MAX (MW)</b>												
Non-Timed	143.5	130.7	138.6	159.4	167.4	169.2	168.7	165.5	171.4	166.3	159.5	146.6
On-Peak	125.0	111.6	118.7	137.0	145.8	150.1	148.8	142.9	149.1	149.1	141.0	123.3
Off-Peak	138.6	128.3	135.0	154.5	166.3	168.5	167.5	164.8	168.7	163.7	155.3	143.0
<b>CLASS PEAK (MW)</b>												
On-Peak	56.7	44.4	53.1	63.1	74.8	89.4	90.7	77.8	81.0	75.1	72.3	52.9
Off-Peak	69.2	62.2	63.2	78.0	96.6	107.4	106.2	96.5	95.5	89.0	80.5	66.2
<b>COINCIDENT (MW)</b>												
System	31.5	26.9	26.7	27.4	33.9	31.1	27.9	20.4	24.3	27.6	28.5	34.6
Time	25th@0800	23rd@0800	10th@0800	27th@1700	21st@1700	30th@1700	15th@1700	24th@1600	3rd@1700	1st@1600	30th@0800	31st@1900
<b>ENERGY (MWH)</b>												
On-Peak	4,767	4,041	4,784	5,901	7,473	9,566	10,118	8,366	8,871	7,848	7,335	6,120
%	28.1%	28.8%	30.0%	27.0%	24.9%	26.4%	25.8%	25.1%	26.6%	27.8%	29.7%	30.3%
Off-Peak	12,196	9,975	11,174	15,946	22,586	26,656	29,126	24,969	24,498	20,354	17,399	14,087
%	71.9%	71.2%	70.0%	73.0%	75.1%	73.6%	74.2%	74.9%	73.4%	72.2%	70.3%	69.7%
Total	16,963	14,016	15,958	21,847	30,059	36,222	39,244	33,335	33,369	28,202	24,734	20,207
<b>CUSTOMERS</b>												
Monthly Count	1,507	1,502	1,502	1,513	1,512	1,509	1,509	1,507	1,509	1,487	1,478	1,481
<b>FACTORS</b>												
Coincident Factor (CP)	0.220	0.206	0.193	0.172	0.203	0.184	0.165	0.123	0.142	0.166	0.179	0.236
Load Factor (Max) %	16.2%	14.7%	15.8%	18.8%	24.6%	29.3%	31.9%	27.6%	26.7%	23.2%	21.2%	18.9%
Load Factor (NCP) %	33.6%	30.9%	34.6%	38.4%	42.6%	46.2%	50.6%	47.3%	47.9%	43.4%	42.1%	41.8%
Load Factor (CP) %	73.8%	71.4%	81.9%	109.2%	121.5%	159.5%	192.7%	223.8%	186.1%	140.0%	118.9%	80.0%
<b>CUSTOMER AVERAGES</b>												
Energy Use (kWh)	11,256	9,332	10,625	14,440	19,880	24,004	26,007	22,120	22,113	18,966	16,735	13,644
Ind. Max Demand (kW)	95.23	87.04	92.29	105.35	110.68	112.12	111.82	109.84	113.56	111.83	107.89	98.96
Coincident Demand (kW)	20.90	17.91	17.78	18.11	22.42	20.61	18.49	13.54	16.10	18.56	19.28	23.36
<b>SUMMER</b>												
(May-Oct)												
<b>WINTER</b>												
(Nov-Apr)												
<b>ANNUAL</b>												
Summation Ind Max by Season	171.4	159.5	171.4	159.5	171.4	159.5	171.4	159.5	171.4	159.5	171.4	159.5
Class Peak by Season	90.7	72.3	90.7	72.3	90.7	72.3	90.7	72.3	90.7	72.3	90.7	72.3
Coincident Peak by Season	33.9	34.6	33.9	34.6	33.9	34.6	33.9	34.6	33.9	34.6	33.9	34.6
Energy Summation by Season	52,242	32,949	52,242	32,949	52,242	32,949	52,242	32,949	52,242	32,949	52,242	32,949
Customer Averages by Season	1,506	1,497	1,506	1,497	1,506	1,497	1,506	1,497	1,506	1,497	1,506	1,497
Seasonal Factors	0.198	0.217	0.198	0.217	0.198	0.217	0.198	0.217	0.198	0.217	0.198	0.217
Seasonal Averages	22,182	12,672	22,182	12,672	22,182	12,672	22,182	12,672	22,182	12,672	22,182	12,672
Ind. Max Demand (kW)	111.64	97.79	111.64	97.79	111.64	97.79	111.64	97.79	111.64	97.79	111.64	97.79
Coincident Demand (kW)	18.29	19.56	18.29	19.56	18.29	19.56	18.29	19.56	18.29	19.56	18.29	19.56

TOU Periods - All Months: On-Peak 11 am - 9 pm, M-F Off-Peak 9 pm - 11 am, M-F & All Weekends



Load Research Cost of Service Data  
Test Year Ended December 31st, 2010

\*\*\* General Service E-32 \*\*\*  
0 - 100 kW

	Jan 10	Feb 10	Mar 10	Apr 10	May 10	Jun 10	Jul 10	Aug 10	Sep 10	Oct 10	Nov 10	Dec 10
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**SUMMATION IND MAX (MW)**

Non-Timed	1,203.2	1,153.1	1,186.3	1,265.8	1,368.5	1,668.1	1,878.5	1,854.5	1,845.4	1,660.3	1,352.3	1,253.0
On-Peak	1,082.9	1,054.9	1,117.7	1,207.3	1,316.2	1,615.0	1,821.8	1,788.0	1,717.3	1,595.9	1,287.9	1,139.3
Off-Peak	1,151.0	1,074.1	1,068.2	1,157.3	1,246.2	1,524.1	1,757.8	1,715.7	1,701.2	1,520.1	1,240.0	1,180.5

**CLASS PEAK (MW)**

On-Peak	650.9	634.3	651.3	776.4	855.3	1,144.3	1,294.5	1,326.7	1,202.0	1,088.7	813.7	644.2
Off-Peak	660.7	646.5	632.5	696.9	769.6	1,056.1	1,199.8	1,210.7	1,106.3	1,006.2	739.6	676.0

**COINCIDENT (MW)**

System	467.0	445.1	439.0	583.1	596.0	743.1	809.8	860.3	699.8	750.6	365.7	484.3
Time	25h@0800	23rd@0800	10h@0800	27th@1700	21st@1700	30th@1700	15th@1700	24th@1600	3rd@1700	1st@1600	30th@0800	31st@1900

**ENERGY (MWH)**

On-Peak	89,680	91,883	106,365	110,017	121,570	151,356	180,774	166,392	150,343	115,909	110,811	100,377
%	33.1%	35.3%	37.8%	38.7%	37.9%	40.9%	37.9%	38.7%	40.0%	36.6%	36.7%	35.6%
Off-Peak	181,012	168,097	175,166	174,510	199,239	218,652	263,094	263,972	225,230	200,953	191,307	181,515
%	66.9%	64.7%	62.2%	61.3%	62.1%	59.1%	62.1%	61.3%	60.0%	63.4%	63.3%	64.4%
Total	270,692	259,980	281,531	284,527	320,809	370,008	423,868	430,364	375,573	316,862	302,118	281,892

**CUSTOMERS**

Monthly Count	115,530	115,926	115,965	116,441	116,350	116,445	116,196	116,082	115,895	115,932	116,207	116,484
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**FACTORS**

All load factors are calculated based on 730 hours per month.

Coincident Factor (CF)	0.388	0.386	0.370	0.461	0.436	0.445	0.431	0.464	0.374	0.452	0.270	0.387
Load Factor (Max) %	30.8%	30.9%	32.5%	30.8%	32.1%	30.4%	30.9%	31.6%	27.9%	26.1%	30.6%	30.8%
Load Factor (NCP) %	56.1%	55.1%	59.2%	50.2%	51.4%	44.3%	44.9%	44.4%	42.8%	38.9%	50.9%	57.1%
Load Factor (CP) %	79.4%	80.0%	87.8%	66.8%	73.7%	68.2%	71.7%	68.5%	74.6%	57.8%	113.2%	79.7%

**CUSTOMER AVERAGES**

Energy Use (kWh)	2,343	2,243	2,428	2,444	2,757	3,176	3,648	3,707	3,241	2,733	2,600	2,420
Ind. Max Demand (kW)	10.41	9.95	10.23	10.87	11.76	14.32	16.17	15.98	15.92	14.32	11.64	10.76
Coincident Demand (kW)	4.04	3.84	3.79	5.01	5.12	6.38	6.97	7.41	5.95	6.47	3.15	4.16

TOU Periods - All Months:

On-Peak 9 am - 9 pm, M-F  
Off-Peak 9 am - 9 pm, M-F & All Weekends

SUMMER (May-Oct)	WINTER (Nov-Apr)	ANNUAL
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Summation Ind Max by Season

1,878.5	1,352.3	1,878.5
1,821.8	1,287.9	1,821.8
1,757.6	1,240.0	1,757.6

Class Peak by Season

1,326.7	813.7	1,326.7
1,210.7	739.6	1,210.7

Coincident Peak by Season

860.3	583.1	860.3
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Energy Summation by Season

866,345	609,133	1,475,478
38.7%	36.2%	37.7%
1,371,139	1,071,607	2,442,746
61.3%	63.8%	62.3%
2,237,484	1,680,740	3,918,224

Customer Averages by Season

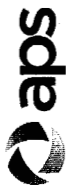
116,150	116,092	116,121
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Seasonal Factors

0.458	0.431	0.458
27.2%	28.4%	23.8%
38.5%	47.2%	33.7%
63.1%	79.2%	55.2%

Seasonal Averages

3,211	2,413	2,812
14.75	10.64	12.69
6.39	4.00	5.19



**Load Research Cost of Service Data**  
**Test Year Ended December 31, 2010**

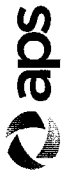
\*\*\* General Service E-32 \*\*\*  
 101 - 400 kW

	Jan 10	Feb 10	Mar 10	Apr 10	May 10	Jun 10	Jul 10	Aug 10	Sep 10	Oct 10	Nov 10	Dec 10
<b>SUMMATION IND MAX (MW)</b>												
Non-Timed	738.5	747.7	757.1	813.2	852.5	907.5	944.3	1,022.9	971.3	894.4	843.1	791.9
On-Peak	688.6	703.6	733.6	794.0	832.8	886.2	924.1	1,009.2	958.1	883.6	792.0	734.2
Off-Peak	719.4	723.9	722.1	770.7	814.6	861.5	908.9	982.1	936.1	854.5	808.5	772.2
<b>CLASS PEAK (MW)</b>												
On-Peak	528.1	545.5	586.6	653.8	685.8	730.8	748.8	861.2	817.2	745.1	625.8	551.5
Off-Peak	545.1	545.8	557.4	626.0	649.8	705.8	725.2	828.1	775.1	704.9	618.5	586.8
<b>COINCIDENT (MW)</b>												
System	470.5	457.3	448.7	511.2	522.0	551.5	557.5	640.7	532.1	574.7	451.9	377.0
Time	25th@0800	23rd@0800	10th@0800	27th@1700	21st@1700	30th@1700	15th@1700	24th@1600	3rd@1700	1st@1600	30th@0800	31st@1900
<b>ENERGY (MWH)</b>												
On-Peak	76,643	80,754	92,453	97,275	103,224	118,723	120,068	127,710	119,364	93,456	93,009	83,659
%	33.2%	35.3%	37.2%	38.1%	36.5%	38.6%	36.2%	37.7%	39.2%	36.0%	37.0%	36.9%
Off-Peak	154,514	147,702	155,888	158,323	179,735	189,109	211,481	211,391	185,198	166,150	158,488	149,121
%	66.8%	64.7%	62.8%	61.9%	63.5%	61.4%	63.8%	62.3%	60.8%	64.0%	63.0%	64.1%
Total	231,157	228,456	248,341	255,598	282,959	307,832	331,549	339,101	304,562	259,606	251,497	232,780
<b>CUSTOMERS</b>												
Monthly Count	4,585	4,619	4,613	4,607	4,589	4,584	4,544	4,538	4,520	4,508	4,511	4,515
<b>FACTORS</b>												
Coincident Factor (CP)	0.637	0.612	0.593	0.629	0.612	0.608	0.590	0.626	0.548	0.643	0.548	0.476
Load Factor (Max) %	42.9%	41.9%	44.9%	43.1%	45.5%	46.5%	48.1%	45.4%	43.0%	39.8%	40.9%	40.3%
Load Factor (NCP) %	58.1%	57.3%	58.0%	53.6%	56.5%	57.7%	60.7%	53.9%	51.1%	47.7%	55.1%	54.3%
Load Factor (CP) %	67.3%	68.4%	75.8%	68.5%	74.3%	76.5%	81.5%	72.5%	78.4%	61.9%	74.6%	84.6%
<b>CUSTOMER AVERAGES</b>												
Energy Use (kWh)	50,416	49,460	53,835	55,480	61,526	67,154	72,964	74,725	67,381	57,588	55,752	51,557
Ind. Max Demand (kW)	161.06	161.87	164.13	176.52	185.37	197.96	207.81	225.40	214.89	198.41	186.90	175.39
Coincident Demand (kW)	102.62	99.00	97.27	110.96	113.50	120.31	122.69	141.19	117.72	127.48	102.39	83.50

<b>TOU Periods - All Months:</b>	<b>On-Peak</b>	<b>Off-Peak</b>
	11 am - 9 pm, M-F	9 pm - 11 am, M-F & All Weekends

<b>SUMMER</b> (May-Oct)	<b>WINTER</b> (Nov-Apr)	<b>ANNUAL</b>
1,022.9	843.1	1,022.9
1,009.2	794.0	1,009.2
982.1	808.5	982.1
<b>Summation Ind Max by Season</b>		
1,022.9	843.1	1,022.9
1,009.2	794.0	1,009.2
982.1	808.5	982.1
<b>Class Peak by Season</b>		
861.2	653.8	861.2
828.1	626.0	828.1
<b>Coincident Peak by Season</b>		
640.7	511.2	640.7
<b>Energy Summation by Season</b>		
682,545	523,792	1,206,338
37.4%	36.2%	36.9%
1,143,064	924,037	2,067,100
62.6%	63.8%	63.1%
1,825,609	1,447,829	3,273,438
<b>Customer Averages by Season</b>		
4,549	4,575	4,562

Seasonal Factors		
0.626	0.606	0.626
40.7%	39.2%	36.5%
48.4%	50.6%	43.4%
74.8%	87.7%	67.0%
Seasonal Averages		
66,890	52,750	59,820
204.97	170.98	187.98
123.82	99.29	111.55



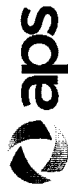
Load Research Cost of Service Data  
Test Year Ended December 31st, 2010

\*\*\* General Service E-32 \*\*\*  
401+ kW

	Jan 10	Feb 10	Mar 10	Apr 10	May 10	Jun 10	Jul 10	Aug 10	Sep 10	Oct 10	Nov 10	Dec 10
<b>SUMMATION IND MAX (MW)</b>												
Non-Timed	605.2	595.1	620.6	662.2	708.0	780.9	838.5	903.2	836.1	876.4	692.0	624.6
On-Peak	572.8	570.7	604.9	650.8	695.3	768.5	827.0	890.2	822.2	767.7	665.1	597.3
Off-Peak	590.8	577.2	598.1	639.7	685.2	756.2	816.8	876.1	812.7	854.7	669.8	607.5
<b>CLASS PEAK (MW)</b>												
On-Peak Weighted	469.0	476.4	494.5	559.0	582.6	648.4	696.3	749.7	729.9	683.3	557.0	482.7
Off-Peak Weighted	466.3	467.0	479.2	539.2	564.2	633.1	679.1	734.7	703.6	645.9	552.0	473.0
<b>COINCIDENT (MW)</b>												
System	426.9	421.5	416.4	499.4	505.8	565.0	601.5	663.3	588.7	589.9	440.7	358.7
Time	25h@0800	23rd@0800	10th@0800	27th@1700	21st@1700	30th@1700	15th@1700	24th@1600	3rd@1700	1st@1600	30th@0800	31st@1900
<b>ENERGY (MWH)</b>												
On-Peak	81,504	84,961	96,844	100,368	105,691	120,495	122,008	124,066	115,251	94,184	99,638	89,679
%	32.5%	34.4%	36.1%	36.1%	34.1%	36.3%	34.4%	34.8%	35.9%	33.3%	35.2%	34.9%
Off-Peak	169,250	162,112	171,733	177,912	204,657	211,798	233,061	232,683	205,401	188,921	183,287	167,318
%	67.5%	65.6%	63.9%	63.9%	65.9%	63.7%	65.6%	65.2%	64.1%	66.7%	64.8%	65.1%
Total	250,754	247,073	268,577	278,280	310,348	332,293	355,069	356,749	320,652	283,105	282,925	256,997
<b>CUSTOMERS</b>												
Monthly Count	1,049	1,049	1,049	1,053	1,042	1,049	1,050	1,040	1,040	1,050	1,047	1,042
<b>FACTORS</b>												
Coincident Factor (CP)	0.705	0.708	0.671	0.754	0.714	0.724	0.717	0.734	0.704	0.672	0.637	0.574
Load Factor (Max) %	56.8%	56.9%	59.3%	57.6%	60.0%	58.3%	58.0%	54.1%	52.5%	44.2%	56.0%	56.4%
Load Factor (NCP) %	73.2%	71.0%	74.4%	68.2%	73.0%	70.3%	69.9%	65.2%	60.2%	55.5%	69.8%	72.9%
Load Factor (CP) %	80.5%	80.3%	88.4%	76.3%	84.1%	80.6%	80.9%	73.7%	74.6%	65.7%	87.9%	98.1%
<b>CUSTOMER AVERAGES</b>												
Energy Use (kWh)	239,041	235,532	256,031	264,274	297,839	316,771	338,161	343,028	308,319	289,624	270,224	246,638
Ind. Max Demand (kW)	576.95	567.33	591.59	628.83	679.48	744.38	798.60	868.43	803.96	836.53	660.95	599.43
Coincident Demand (kW)	406.96	401.81	396.95	474.26	485.41	538.61	572.86	637.79	566.06	561.81	420.92	344.24

TOU Periods - All Months:	On-Peak	Off-Peak
	9 am - 9 pm, M-F	9 am - 9 pm, M-F & All Weekends

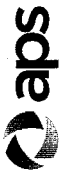
<b>SUMMER</b>	<b>WINTER</b>	<b>ANNUAL</b>
(May-Oct)	(Nov-Apr)	
Summation Ind Max by Season		
903.2	692.0	903.2
890.2	665.1	890.2
876.1	669.8	876.1
<b>Class Peak by Season</b>		
749.7	559.0	749.7
734.7	552.0	734.7
<b>Coincident Peak by Season</b>		
663.3	499.4	663.3
<b>Energy Summation by Season</b>		
681,695	552,994	1,234,689
34.8%	34.9%	34.9%
1,276,521	1,031,612	2,308,133
65.2%	65.1%	65.1%
1,958,216	1,584,606	3,542,822
<b>Customer Averages by Season</b>		
1,045	1,049	1,047
<b>Seasonal Factors</b>		
0.734	0.722	0.734
48.5%	52.3%	44.8%
59.6%	64.7%	53.9%
74.3%	100.9%	67.2%
<b>Seasonal Averages</b>		
312,290	251,957	282,124
788.56	604.18	696.37
560.42	407.52	483.97



Load Research Cost of Service Data  
Test Year Ended December 31, 2010

\*\*\* Total General Service E-30, E-32 \*\*\*

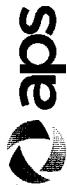
	Jan 10	Feb 10	Mar 10	Apr 10	May 10	Jun 10	Jul 10	Aug 10	Sep 10	Oct 10	Nov 10	Dec 10
<b>SUMMATION IND MAX (MW)</b>												
Non-Timed	2,546.9	2,496.0	2,564.0	2,741.0	2,929.0	3,356.4	3,661.3	3,780.6	3,652.8	3,433.1	2,887.4	2,669.5
On-Peak	2,344.3	2,329.2	2,456.2	2,652.2	2,844.3	3,279.7	3,572.9	3,697.4	3,497.6	3,247.3	2,725.0	2,470.8
Off-Peak	2,461.2	2,375.1	2,416.4	2,567.6	2,746.0	3,141.9	3,483.2	3,573.9	3,449.9	3,229.3	2,718.3	2,560.3
<b>CLASS PEAK (MW)</b>												
On-Peak	1,634.5	1,634.7	1,727.9	1,985.7	2,122.2	2,518.0	2,725.2	2,937.4	2,749.1	2,495.7	1,984.0	1,855.6
Off-Peak	1,646.7	1,630.1	1,641.5	1,847.3	1,983.1	2,391.9	2,594.2	2,768.2	2,587.0	2,358.9	1,888.2	1,731.0
<b>COINCIDENT (MW)</b>												
System	1,364.4	1,323.9	1,304.1	1,593.7	1,623.8	1,859.6	1,988.8	2,164.3	1,810.6	1,915.2	1,288.3	1,220.0
Time	25th@0800	23rd@0800	10th@0800	27th@1700	21st@1700	30th@1700	15th@1700	24th@1600	3rd@1700	1st@1600	30th@0800	31st@1900
<b>ENERGY (MWH)</b>												
On-Peak	247,827	257,598	295,663	307,659	330,485	390,574	402,850	418,168	384,958	303,549	303,458	273,715
%	32.9%	35.0%	37.0%	37.6%	36.2%	38.7%	36.3%	37.1%	38.5%	35.3%	36.3%	35.5%
Off-Peak	504,776	477,911	502,786	510,746	583,631	619,559	707,636	708,046	615,829	556,024	533,082	497,954
%	67.1%	65.0%	63.0%	62.4%	63.8%	61.3%	63.7%	62.9%	61.5%	64.7%	63.7%	64.5%
Total	752,603	735,509	798,449	818,405	914,116	1,010,133	1,110,486	1,126,214	1,000,787	859,573	836,540	771,669
<b>CUSTOMERS</b>												
Monthly Count	121,164	121,594	121,627	122,101	121,991	122,078	121,790	121,680	121,455	121,490	121,785	122,041
<b>FACTORS</b>												
Coincident Factor (CP)	0.536	0.530	0.509	0.581	0.554	0.554	0.538	0.572	0.496	0.558	0.439	0.457
Load Factor (Max) %	40.5%	40.4%	42.7%	40.9%	42.8%	41.2%	41.5%	40.8%	37.5%	34.3%	39.7%	39.6%
Load Factor (NCP) %	62.6%	61.6%	63.3%	56.5%	59.0%	55.0%	55.8%	52.5%	49.9%	47.2%	57.8%	61.1%
Load Factor (CP) %	75.6%	76.1%	83.9%	70.3%	77.1%	74.4%	77.3%	71.3%	75.7%	61.5%	90.4%	86.6%
<b>CUSTOMER AVERAGES</b>												
Energy Use (kWh)	6,211	6,049	6,565	6,703	7,493	8,274	9,118	9,257	8,240	7,075	6,870	6,323
Ind. Max Demand (kW)	21.02	20.53	21.08	22.45	24.01	27.49	30.06	31.07	30.08	28.26	23.71	21.87
Coincident Demand (kW)	11.26	10.89	10.72	13.05	13.31	15.23	16.17	17.79	14.91	15.76	10.42	10.00
TOU Periods - All Months: On-Peak 11 am - 9 pm, M-F Off-Peak 9 pm - 11 am, M-F & All Weekends												
<b>SUMMER</b> (May-Oct)												
<b>WINTER</b> (Nov-Apr)												
<b>ANNUAL</b>												
Summation Ind Max by Season	3,780.6	2,887.4	3,780.6	3,697.4	3,573.9	2,718.3	3,573.9	2,718.3	2,718.3	2,718.3	2,718.3	2,718.3
Class Peak by Season	2,937.4	1,985.7	2,937.4	2,768.2	1,888.2	2,768.2	2,768.2	2,768.2	2,768.2	2,768.2	2,768.2	2,768.2
Coincident Peak by Season	2,164.3	1,583.7	2,164.3	2,164.3	1,810.6	1,915.2	1,288.3	1,220.0	1,288.3	1,220.0	1,288.3	1,220.0
Energy Summation by Season	2,230,585	1,685,920	2,230,585	3,790,724	3,027,255	6,817,979	63.0%	64.2%	63.5%	63.5%	63.5%	63.5%
Customer Averages by Season	121,744	121,715	121,744	121,744	121,744	121,744	121,744	121,744	121,744	121,744	121,744	121,744
Seasonal Factors	0.572	0.552	0.572	0.572	0.552	0.572	0.552	0.572	0.552	0.572	0.552	0.572
Seasonal Averages	8,243	6,453	8,243	8,243	8,243	8,243	8,243	8,243	8,243	8,243	8,243	8,243
Ind. Max Demand (kW)	28.50	21.78	28.50	28.50	28.50	28.50	28.50	28.50	28.50	28.50	28.50	28.50
Coincident Demand (kW)	15.53	11.06	15.53	15.53	15.53	15.53	15.53	15.53	15.53	15.53	15.53	15.53



Load Research Cost of Service Data  
Test Year Ended December 31st, 2010  
\*\*\* General Service E-32 TOU\*\*\*  
0 - 100 KW

	Jan 10	Feb 10	Mar 10	Apr 10	May 10	Jun 10	Jul 10	Aug 10	Sep 10	Oct 10	Nov 10	Dec 10
<b>SUMMATION IND MAX (MW)</b>												
Non-Timed	8.3	8.4	7.9	8.2	8.7	9.9	10.6	10.3	10.2	9.3	8.8	8.6
On-Peak	7.5	7.1	7.5	7.6	7.8	9.3	9.9	9.6	9.4	8.7	7.9	8.0
Off-Peak	8.2	8.3	7.7	8.0	8.4	9.6	10.2	10.0	9.9	9.1	8.4	8.4
<b>CLASS PEAK (MW)</b>												
On-Peak	4.9	5.0	4.7	5.1	5.9	7.2	7.7	7.2	6.8	6.2	5.3	5.4
Off-Peak	4.8	4.5	4.4	4.8	5.6	7.0	7.6	7.1	6.8	6.0	5.2	5.1
<b>COINCIDENT (MW)</b>												
System	3.2	3.1	3.1	3.7	4.2	3.7	3.5	3.4	3.5	3.9	2.9	5.0
Time	25th@0800	23rd@0800	10th@0800	27th@1700	21st@1700	30th@1700	15th@1700	24th@1600	3rd@1700	1st@1600	30th@0800	31st@1900
<b>ENERGY (MWH)</b>												
On-Peak	904	866	1,119	1,090	1,164	1,516	1,736	1,836	1,277	1,253	1,216	1,092
%	28.3%	31.4%	33.9%	34.2%	33.3%	36.5%	34.5%	33.9%	34.5%	31.1%	32.3%	31.7%
Off-Peak	2,185	1,897	2,187	2,098	2,332	2,635	3,291	3,573	2,429	2,773	2,548	2,352
%	70.7%	68.6%	66.1%	65.8%	66.7%	63.5%	65.5%	66.1%	65.5%	68.9%	67.7%	68.3%
Total	3,089	2,763	3,306	3,188	3,496	4,151	5,027	5,409	3,706	4,026	3,764	3,444
<b>CUSTOMERS</b>												
Monthly Count	298	300	303	311	306	301	311	311	320	315	316	323
<b>FACTORS</b>												
On-Peak	0.385	0.368	0.390	0.451	0.484	0.375	0.330	0.331	0.343	0.418	0.329	0.584
Load Factor (Max) %	50.9%	44.9%	57.0%	53.2%	55.2%	57.7%	64.8%	72.0%	49.8%	59.1%	56.4%	55.1%
Load Factor (NCP) %	86.4%	75.7%	96.4%	85.6%	81.2%	79.0%	88.4%	102.9%	74.7%	89.0%	97.3%	87.4%
Load Factor (CP) %	132.2%	122.1%	146.1%	118.0%	114.0%	153.7%	196.8%	217.9%	145.0%	141.4%	177.8%	94.4%
<b>CUSTOMER AVERAGES</b>												
Energy Use (kWh)	10,386	9,210	10,911	10,251	11,425	13,791	16,184	17,392	11,581	12,781	11,911	10,663
Ind. Max Demand (kW)	27.91	28.08	26.23	26.40	28.33	32.76	34.15	33.07	31.86	29.81	27.93	26.50
Coincident Demand (kW)	10.74	10.33	10.23	11.90	13.73	12.29	11.26	10.93	10.94	12.38	9.18	15.48

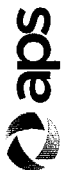
TOU Periods - All Months: On-Peak 9 am - 9 pm, M-F Off-Peak 9 am - 9 pm, M-F & All Weekends



Load Research Cost of Service Data  
Test Year Ended December 31, 2010  
\*\*\* General Service E-32TOU\*\*\*  
101 - 400 kW

	Jan 10	Feb 10	Mar 10	Apr 10	May 10	Jun 10	Jul 10	Aug 10	Sep 10	Oct 10	Nov 10	Dec 10
<b>SUMMATION IND MAX (MW)</b>												
Non-Timed	11.2	11.1	11.4	12.0	12.8	13.8	14.6	14.8	14.3	13.4	11.5	12.1
On-Peak	10.8	10.8	11.1	11.7	12.4	13.1	13.9	14.1	14.1	12.7	10.8	11.3
Off-Peak	10.9	10.5	10.9	11.5	12.5	13.4	14.2	14.3	14.2	13.1	11.1	11.6
<b>CLASS PEAK (MW)</b>												
On-Peak	9.1	9.5	9.5	9.8	10.4	11.2	12.1	12.0	11.5	10.7	8.9	8.4
Off-Peak	9.2	8.9	9.3	9.7	10.0	10.6	11.8	11.8	11.6	10.5	8.5	8.7
<b>COINCIDENT (MW)</b>												
System	6.4	6.1	6.4	7.2	7.4	5.8	5.9	7.3	6.9	6.8	5.6	8.0
Time	25th@0800	23rd@0800	10th@0800	27th@1700	21st@1700	30th@1700	15th@1700	24th@1600	3rd@1700	1st@1800	30th@0800	31st@1900
<b>ENERGY (MWH)</b>												
On-Peak	1,405	1,444	1,655	1,677	1,736	2,024	2,320	2,423	2,163	1,835	1,873	1,984
%	29.8%	31.5%	33.0%	32.6%	30.3%	33.1%	31.8%	33.1%	34.2%	31.1%	33.0%	32.9%
Off-Peak	3,311	3,145	3,354	3,469	3,988	4,088	4,976	4,898	4,155	4,070	3,799	4,049
%	70.2%	68.5%	67.0%	67.4%	69.7%	66.9%	68.2%	66.9%	65.8%	68.9%	67.0%	67.1%
Total	4,716	4,589	5,009	5,146	5,724	6,112	7,296	7,321	6,318	5,905	5,672	6,033
<b>CUSTOMERS</b>												
Monthly Count	80	80	79	76	77	74	75	77	78	77	73	79
<b>FACTORS</b>												
Load Factor (Max) %	57.5%	56.6%	60.3%	58.9%	61.2%	60.7%	68.4%	67.8%	60.6%	60.6%	67.6%	68.2%
Load Factor (NCP) %	70.4%	66.2%	71.9%	71.8%	75.4%	74.6%	82.4%	83.4%	74.9%	75.7%	87.8%	94.7%
Load Factor (CP) %	100.9%	103.1%	107.2%	97.9%	106.0%	144.4%	169.4%	137.4%	125.4%	119.0%	138.7%	103.3%
<b>CUSTOMER AVERAGES</b>												
Energy Use (kWh)	58,950	57,363	63,405	67,711	74,338	82,595	97,280	95,078	81,000	76,688	77,699	76,367
Ind. Max Demand (kW)	140.40	138.86	143.99	157.46	166.45	186.40	194.72	192.01	183.04	173.49	157.52	153.43
Coincident Demand (kW)	80.00	76.25	81.01	94.74	96.10	78.38	78.67	94.81	88.46	88.31	76.71	101.27
<b>SEASONAL AVERAGES</b>												
SUMMER (May-Oct)	14.3	14.1	14.3	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1
WINTER (Nov-Apr)	14.3	14.1	14.3	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6
ANNUAL	14.3	14.1	14.3	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6
<b>SEASONAL AVERAGES</b>												
Energy Summation by Season	12,500	10,039	22,539	32.3%	32.3%	32.3%	32.3%	32.3%	32.3%	32.3%	32.3%	32.3%
Customer Averages by Season	76	78	77	76	78	77	76	78	77	76	78	77
<b>SEASONAL AVERAGES</b>												
Seasonal Factors	0.501	0.660	0.501	0.501	0.660	0.501	0.501	0.660	0.501	0.660	0.501	0.501
Customer Averages by Season	76	78	77	76	78	77	76	78	77	76	78	77
<b>SEASONAL AVERAGES</b>												
Seasonal Averages	84,496	66,916	75,706	84,496	66,916	75,706	84,496	66,916	75,706	84,496	66,916	75,706
Ind. Max Demand (kW)	182.68	148.61	165.65	182.68	148.61	165.65	182.68	148.61	165.65	182.68	148.61	165.65
Coincident Demand (kW)	87.45	85.00	86.23	87.45	85.00	86.23	87.45	85.00	86.23	87.45	85.00	86.23

TOU Periods - All Months: On-Peak 11 am - 9 pm, M-F Off-Peak 9 pm - 11 am, M-F & All Weekends



Load Research Cost of Service Data  
Test Year Ended December 31st, 2010

\*\*\* General Service E-32 TOU\*\*\*  
401+ kW

	Jan 10	Feb 10	Mar 10	Apr 10	May 10	Jun 10	Jul 10	Aug 10	Sep 10	Oct 10	Nov 10	Dec 10
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**SUMMATION IND MAX (MW)**

Non-Timed	40.1	37.6	38.7	37.6	42.5	48.3	57.0	50.7	49.4	52.6	40.9	43.5
On-Peak	36.4	33.0	34.4	34.9	37.9	43.8	54.2	47.5	47.0	48.2	36.0	38.7
Off-Peak	39.8	36.9	38.2	37.0	41.7	47.2	55.8	50.0	48.6	51.6	40.3	42.8

**CLASS PEAK (MW)**

On-Peak	34.1	27.9	29.1	30.7	33.4	37.6	47.5	42.5	43.1	41.7	31.6	31.9
Off-Peak	32.2	29.0	29.4	31.2	32.7	38.6	47.3	42.3	41.7	42.2	31.7	33.9

**COINCIDENT (MW)**

System	26.5	23.6	26.5	27.0	27.9	31.1	38.5	34.2	38.0	37.2	24.5	28.4
Time	25th@0800	23rd@0800	10th@0800	27th@1700	21st@1700	30th@1700	15th@1700	24th@1600	3rd@1700	1st@1600	30th@0800	31st@1900

**ENERGY (MWH)**

On-Peak	6,239	6,114	7,238	7,963	7,572	8,782	9,232	9,018	7,753	7,502	7,456	7,841
%	29.7%	30.8%	31.9%	32.2%	30.2%	32.3%	31.0%	31.7%	32.7%	29.8%	31.9%	31.3%
Off-Peak	14,793	13,726	15,452	16,735	17,516	18,394	20,549	19,444	15,960	17,713	15,947	16,785
%	70.3%	69.2%	68.1%	67.8%	69.8%	67.7%	69.0%	68.3%	67.3%	70.2%	68.1%	68.7%
Total	21,032	19,840	22,690	24,698	25,088	27,176	29,781	28,462	23,713	25,215	23,403	24,426

**CUSTOMERS**

Monthly Count	50	46	48	48	46	46	50	48	45	49	47	50
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**FACTORS**

All load factors are calculated based on 730 hours per month.

Coincident Factor (CF)	0.661	0.628	0.694	0.718	0.656	0.645	0.675	0.674	0.770	0.707	0.600	0.653
Load Factor (Max) %	71.8%	72.4%	80.3%	90.0%	80.8%	77.2%	71.5%	76.5%	65.8%	65.6%	78.5%	77.0%
Load Factor (NCP) %	84.5%	83.7%	105.7%	108.4%	102.8%	96.4%	85.9%	91.7%	75.4%	81.9%	101.1%	98.7%
Load Factor (CF) %	108.7%	115.2%	117.3%	125.3%	123.2%	119.7%	106.0%	114.0%	85.5%	92.9%	130.9%	117.8%

**CUSTOMER AVERAGES**

Energy Use (kWh)											
420,640	431,304	472,708	514,542	545,391	590,783	595,620	592,956	514,592	497,936	488,520	
Ind. Max Demand (kW)											
802.01	816.51	808.74	783.19	924.41	1,048.95	1,140.92	1,056.91	1,097.18	1,074.29	889.26	869.21
Coincident Demand (kW)											
530.00	513.04	552.08	562.50	606.52	676.09	770.00	712.50	844.44	759.18	521.28	568.00

TOU Periods - All Months:

On-Peak 9 am - 9 pm, M-F  
Off-Peak 9 am - 9 pm, M-F & All Weekends

SUMMER (May-Oct)	WINTER (Nov-Apr)	ANNUAL
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Summation Ind Max by Season		
57.0	43.5	57.0
54.2	38.7	54.2
55.8	42.8	55.8

Class Peak by Season

47.5	34.1	47.5
47.3	33.9	47.3

Coincident Peak by Season

38.5	28.4	38.5
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Energy Summation by Season

49,859	42,652	92,510
31.3%	31.3%	31.3%
109,576	93,437	203,014
68.7%	68.7%	68.7%
159,435	136,089	295,524

Customer Averages by Season

47	48	48
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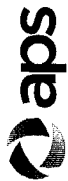
Seasonal Factors

0.675	0.653	0.675
63.8%	71.5%	59.1%
76.6%	91.1%	71.0%
94.5%	109.4%	87.6%

Seasonal Averages

561,050	470,942	515,996
1,057.11	824.49	940.80
728.12	541.15	634.64





Load Research Cost of Service Data  
Test Year Ended December 31, 2010  
\*\*\* Total General Service E-32TOU\*\*\*

	Jan 10	Feb 10	Mar 10	Apr 10	May 10	Jun 10	Jul 10	Aug 10	Sep 10	Oct 10	Nov 10	Dec 10
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**SUMMATION IND MAX (MW)**

Non-Timed	59.7	57.1	58.0	57.8	64.0	71.9	82.3	75.8	73.8	75.3	81.2	84.1
On-Peak	54.8	51.0	53.0	54.2	58.2	66.2	78.0	71.2	70.5	69.7	54.7	57.9
Off-Peak	58.9	55.7	56.8	56.4	62.6	70.2	80.3	74.3	72.7	73.8	59.9	62.8

**CLASS PEAK (MW)**

On-Peak	44.1	41.0	42.3	45.0	48.8	55.9	66.4	61.2	60.4	57.4	44.4	43.9
Off-Peak	44.6	41.2	41.9	45.2	47.6	54.7	65.3	59.6	57.9	57.7	43.9	46.2

**COINCIDENT (MW)**

System	36.1	32.8	36.0	37.9	39.5	40.6	47.9	44.9	48.4	47.9	33.0	41.4
Time	25th@0800	23rd@0800	10th@0800	27th@1700	21st@1700	30th@1700	15th@1700	24th@1600	3rd@1700	1st@1600	30th@0800	31st@1900

**ENERGY (MWH)**

On-Peak	8,548	8,424	10,013	10,730	10,472	12,322	13,288	13,277	11,193	10,580	10,546	10,716
%	29.6%	31.0%	32.3%	32.5%	30.5%	32.9%	31.6%	32.2%	33.2%	30.1%	32.1%	31.6%
Off-Peak	20,289	18,768	20,992	22,302	23,836	25,117	28,816	27,915	22,544	24,556	22,293	23,187
%	70.4%	69.0%	67.7%	67.5%	69.5%	67.1%	68.4%	67.8%	66.8%	69.9%	67.9%	68.4%
Total	28,837	27,192	31,005	33,032	34,308	37,439	42,104	41,192	33,737	35,146	32,839	33,903

**CUSTOMERS**

Monthly Count	428	426	430	435	429	421	436	436	443	441	436	452
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**FACTORS**

All load factors are calculated based on 730 hours per month.

Coincident Factor (CP)	0.605	0.575	0.620	0.656	0.617	0.565	0.562	0.592	0.655	0.636	0.539	0.645
Load Factor (Max) %	66.2%	65.2%	73.2%	78.3%	73.4%	71.3%	70.1%	74.4%	62.6%	63.9%	73.5%	72.4%
Load Factor (NCP) %	88.6%	90.4%	100.4%	100.1%	96.3%	91.7%	86.9%	92.2%	76.5%	83.4%	101.3%	100.5%
Load Factor (CP) %	109.4%	113.6%	118.0%	119.4%	119.0%	126.3%	120.4%	125.7%	95.5%	100.5%	136.3%	112.2%

**CUSTOMER AVERAGES**

Energy Use (kWh)	67,376	63,831	72,105	75,936	79,972	88,929	96,569	94,477	76,156	79,696	75,319	75,007
Ind. Max Demand (kW)	139.37	134.02	134.99	132.81	149.21	170.80	188.69	173.85	168.69	170.81	140.32	141.91
Coincident Demand (kW)	84.35	77.00	83.72	87.13	92.07	96.44	109.86	102.98	109.26	108.62	75.69	91.59

TOU Periods - All Months: On-Peak 11 am - 9 pm, M-F Off-Peak 9 pm - 11 am, M-F & All Weekends

SUMMER (May-Oct)	WINTER (Nov-Apr)	ANNUAL
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Summation Ind Max by Season

82.3	64.1	82.3
78.0	57.9	78.0
80.3	62.8	80.3

Class Peak by Season

66.4	45.0	66.4
65.3	46.2	65.3

Coincident Peak by Season

48.4	41.4	48.4
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Energy Summation by Season

71,141	58,977	130,118
31.8%	31.6%	31.7%
152,785	127,831	280,616
68.2%	68.4%	68.3%
223,926	186,808	410,734

Customer Averages by Season

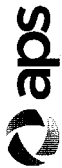
434	435	434
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Seasonal Factors

0.588	0.645	0.588
62.1%	66.5%	57.0%
77.0%	92.3%	70.6%
106.7%	103.0%	97.9%

Seasonal Averages

85,966	71,595	78,781
170.01	137.23	153.62
103.20	83.24	93.22



Load Research Cost of Service Data  
Test Year Ended December 31, 2010

\*\*\* General Service E-34 \*\*\*

												SUMMER (May-Oct)	WINTER (Nov-Apr)	ANNUAL
SUMMATION IND MAX (MW)														
Non-Timed	Jan 10	Feb 10	Mar 10	Apr 10	May 10	Jun 10	Jul 10	Aug 10	Sep 10	Oct 10	Nov 10	Dec 10	Summation Ind Max by Season	
	150.7	150.7	150.7	160.3	164.4	170.6	187.8	196.4	201.2	195.7	175.7	158.4	201.2	201.2
On-Peak	148.1	148.3	159.7	164.2	168.7	186.8	195.9	200.6	194.2	175.0	157.2	136.2	200.6	200.6
Off-Peak	148.1	148.3	154.7	157.6	164.9	181.5	191.8	195.5	190.0	170.2	151.6	135.1	195.5	195.5
CLASS PEAK (MW)														
On-Peak	136.3	136.8	141.6	148.6	153.8	174.1	180.4	186.7	180.2	161.7	140.6	123.6	186.7	186.7
Off-Peak	133.0	135.2	139.2	143.7	150.0	171.7	177.6	181.7	173.6	159.1	137.3	119.7	181.7	181.7
COINCIDENT (MW)														
System	118.9	125.6	124.3	141.7	148.5	170.4	162.1	183.9	163.2	159.8	115.1	103.7	183.9	183.9
Time	25h@0800	23h@0800	10h@0800	27h@1700	21st@1700	30h@1700	15th@1700	24h@1600	3rd@1700	1st@1600	30h@0800	31st@1900	Coincident Peak by Season	
	118.9	125.6	124.3	141.7	148.5	170.4	162.1	183.9	163.2	159.8	115.1	103.7	183.9	183.9
ENERGY (MWH)														
On-Peak	25,967	27,076	28,230	26,864	26,092	32,252	33,819	33,910	36,864	29,119	29,270	26,253	355,736	355,736
%	31.0%	32.7%	34.1%	33.8%	31.5%	34.1%	32.5%	32.6%	33.8%	31.2%	33.3%	33.3%	32.7%	32.8%
Off-Peak	57,858	55,833	54,499	52,613	56,621	62,464	70,361	70,143	72,052	64,290	58,598	52,692	728,024	728,024
%	69.0%	67.3%	65.9%	66.2%	68.5%	65.9%	67.5%	67.4%	66.2%	68.8%	66.7%	66.7%	67.3%	67.2%
Total	83,845	82,909	82,729	79,477	82,713	94,716	104,180	104,053	108,916	93,409	87,868	78,945	1,083,760	1,083,760
CUSTOMERS														
Monthly Count	37	37	37	37	36	36	36	37	37	37	35	35	36	36
FACTORS														
Coincident Factor (CP)	0.789	0.833	0.775	0.862	0.870	0.907	0.825	0.914	0.834	0.910	0.727	0.748	0.814	0.862
Load Factor (Max) %	76.2%	75.4%	70.7%	66.2%	66.4%	69.1%	72.7%	70.8%	76.2%	72.8%	76.0%	76.0%	66.7%	68.9%
Load Factor (NCP) %	84.3%	83.0%	80.0%	73.3%	73.7%	74.5%	79.1%	76.4%	82.8%	79.1%	85.6%	87.5%	71.9%	76.2%
Load Factor (CP) %	96.6%	90.4%	91.2%	76.8%	76.3%	76.1%	88.0%	77.5%	91.4%	80.1%	104.6%	104.3%	82.8%	105.2%
CUSTOMER AVERAGES														
Energy Use (kWh)	2,266,081	2,240,784	2,235,919	2,207,694	2,297,583	2,631,000	2,893,889	2,812,243	2,943,676	2,668,829	2,510,514	2,255,571	2,707,870	2,286,094
Ind. Max Demand (kW)	4,074.28	4,073.24	4,333.27	4,566.62	4,738.81	5,216.93	5,455.51	5,638.82	5,290.43	5,018.65	4,526.16	3,961.46	5,193.19	4,255.84
Coincident Demand (kW)	3,213.51	3,384.59	3,359.46	3,936.11	4,125.00	4,733.33	4,502.78	4,970.27	4,410.81	4,565.71	3,288.57	2,962.86	4,551.32	3,359.18

TOU Periods - All Months: On-Peak 11 am - 11 pm, M.F. Off-Peak 9 pm - 11 am, M.F. & All Weekends



Load Research Cost of Service Data  
Test Year Ended December 31, 2010

\*\*\* General Service E-35 \*\*\*

	Jan 10	Feb 10	Mar 10	Apr 10	May 10	Jun 10	Jul 10	Aug 10	Sep 10	Oct 10	Nov 10	Dec 10
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**SUMMATION IND MAX (MW)**

Non-Timed	232.9	236.7	231.6	243.1	248.5	261.7	270.1	261.4	276.9	270.5	255.3	255.8
On-Peak	209.2	211.9	210.2	221.6	220.9	232.6	239.4	235.2	244.6	246.3	236.5	235.6
Off-Peak	231.4	234.6	227.8	241.8	247.1	259.9	268.7	260.3	275.6	269.2	253.3	253.8

**CLASS PEAK (MW)**

On-Peak	198.4	195.7	184.4	201.2	210.2	218.3	217.1	212.3	221.7	227.5	216.7	220.1
Off-Peak	199.3	199.3	190.4	207.3	214.4	225.3	228.1	218.9	233.5	233.0	217.5	219.5

**COINCIDENT (MW)**

System	185.9	179.8	159.7	183.4	195.4	196.9	200.6	197.0	208.4	224.8	195.5	199.3
Time	25h@0800	23rd@0800	10h@0800	27h@1700	21st@1700	30h@1700	15h@1700	24h@1600	3rd@1700	1st@1600	30h@0800	31st@1900

**ENERGY (MWH)**

On-Peak	35,950	41,281	45,681	39,465	37,990	43,798	42,233	42,014	46,327	42,498	44,715	46,624
%	28.0%	32.7%	34.1%	30.5%	28.4%	30.2%	29.2%	29.8%	30.7%	28.3%	31.0%	31.1%
Off-Peak	92,463	85,124	88,192	90,139	95,635	101,177	102,669	99,047	104,622	107,426	99,587	103,434
%	72.0%	67.3%	65.9%	69.5%	71.6%	69.8%	70.8%	70.2%	69.3%	71.7%	69.0%	68.9%
Total	128,413	126,405	133,873	129,604	133,625	144,975	144,902	141,061	150,949	149,924	144,302	150,058

**CUSTOMERS**

Monthly Count	32	33	33	34	33	33	33	33	34	36	36	37
---------------	----	----	----	----	----	----	----	----	----	----	----	----

FACTORS All load factors are calculated based on 730 hours per month.

Concurrent Factor (CF)	0.798	0.760	0.685	0.796	0.786	0.752	0.743	0.754	0.745	0.831	0.766	0.779
Load Factor (Max) %	75.5%	73.2%	79.2%	73.0%	73.8%	75.9%	73.4%	73.9%	74.7%	75.9%	77.4%	80.3%
Load Factor (NCP) %	88.3%	86.9%	96.3%	85.6%	85.5%	88.2%	87.0%	88.3%	88.6%	88.1%	90.9%	93.4%
Load Factor (CP) %	94.6%	96.3%	115.6%	91.8%	93.8%	100.9%	98.9%	98.1%	100.2%	91.4%	101.1%	103.1%

**CUSTOMER AVERAGES**

Energy Use (KWh)	4,012,906	3,830,455	4,056,758	3,811,862	4,055,303	4,393,182	4,387,939	4,274,576	4,439,676	4,164,556	4,006,389	4,055,622
Ind. Max Demand (kW)	7,277.78	7,172.37	7,018.11	7,149.69	7,531.01	7,931.62	8,185.20	7,919.79	8,144.54	7,512.99	7,090.90	6,914.32
Coincident Demand (kW)	5,809.38	5,448.48	4,809.09	5,688.24	5,921.21	5,966.67	6,078.79	5,969.70	6,070.59	6,244.44	5,430.56	5,386.49

TOU Periods - All Months: On-Peak 11 am - 9 pm, M-F Off-Peak 9 pm - 11 am, M-F & All Weekends

SUMMER (May-Oct)	WINTER (Nov-Apr)	ANNUAL
---------------------	---------------------	--------

Summation Ind Max by Season		
276.9	255.8	276.9
246.3	236.5	246.3
275.6	253.3	275.6

Class Peak by Season		
227.5	220.1	227.5
233.5	219.5	233.5

Coincident Peak by Season		
224.8	199.3	224.8

Energy Summation by Season		
254,860	253,716	508,576
29.4%	31.2%	30.3%
610,676	559,339	1,169,615
70.6%	68.8%	69.7%
865,536	812,655	1,678,191

Customer Averages by Season		
34	34	34

Seasonal Factors		
0.812	0.779	0.812
71.4%	72.5%	69.2%
84.6%	84.3%	82.1%
98.5%	93.1%	95.5%

Seasonal Averages		
4,285,872	3,962,669	4,124,270
7,870.86	7,103.86	7,487.36
6,041.90	5,428.70	5,735.30



Load Research Cost of Service Data  
Test Year Ended December 31, 2010

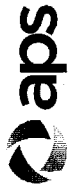
\*\*\* STREETLIGHTS \*\*\*

	Jan 10	Feb 10	Mar 10	Apr 10	May 10	Jun 10	Jul 10	Aug 10	Sep 10	Oct 10	Nov 10	Dec 10
<b>SUMMATION IND MAX (MW)</b>												
Non-Timed	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6
On-Peak	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6
Off-Peak	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6
<b>CLASS PEAK (MW)</b>												
On-Peak	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6
Off-Peak	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6
<b>COINCIDENT (MW)</b>												
System	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time	25th@0800	23rd@0800	10th@0800	27th@1700	21st@1700	30th@1700	15th@1700	24th@1600	3rd@1700	1st@1600	30th@0800	31st@1900
<b>ENERGY (MWH)</b>												
On-Peak	2,386	2,160	2,230	2,180	1,824	2,037	1,721	2,021	2,333	2,308	2,863	2,778
%	21.8%	19.5%	20.2%	19.3%	16.8%	16.8%	16.0%	17.3%	21.0%	20.8%	24.3%	24.9%
Off-Peak	8,568	8,898	8,788	9,099	9,006	10,095	9,036	9,635	8,779	8,777	8,299	8,399
%	78.2%	80.5%	79.8%	80.7%	83.2%	83.2%	84.0%	82.7%	79.0%	79.2%	75.7%	75.1%
Total	10,954	11,058	11,018	11,279	10,830	12,132	10,757	11,656	11,112	11,085	10,962	11,177
<b>CUSTOMERS</b>												
Monthly Count	946	948	947	959	963	964	964	965	962	963	962	963
<b>FACTORS</b>												
Coincident Factor (CP)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.000
Load Factor (Max) %	46.0%	46.5%	46.3%	47.4%	45.5%	51.0%	45.2%	49.0%	46.7%	46.8%	46.1%	47.0%
Load Factor (NCP) %	46.0%	46.5%	46.3%	47.4%	45.5%	51.0%	45.2%	49.0%	46.7%	46.8%	46.1%	47.0%
Load Factor (CP) %	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	47.0%
<b>CUSTOMER AVERAGES</b>												
Energy Use (kWh)	11,579	11,665	11,635	11,761	11,246	12,585	11,264	12,104	11,551	11,511	11,395	11,606
Ind. Max Demand (kW)	34.46	34.39	34.42	33.99	33.85	33.82	34.14	33.85	33.89	33.85	33.89	33.85
Coincident Demand (kW)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	33.85

TOU Periods - All Months:	On-Peak	Off-Peak
	11 am - 9 pm, M-F	9 pm - 11 am, M-F & All Weekends

<b>SUMMER</b> (May-Oct)	<b>WINTER</b> (Nov-Apr)	<b>ANNUAL</b>
32.6	32.6	32.6
Summation Ind Max by Season	32.6	32.6
32.6	32.6	32.6
32.6	32.6	32.6
Class Peak by Season	32.6	32.6
32.6	32.6	32.6
Coincident Peak by Season	0.0	32.6
0.0	32.6	32.6
Energy Summation by Season	12,245	14,397
18.1%	21.7%	19.9%
55,327	52,051	107,379
81.9%	78.3%	80.1%
67,572	66,448	134,020
Customer Averages by Season	962	954
962	954	958

Seasonal Factors		
0.000	1.000	0.000
47.3%	46.5%	46.9%
47.3%	46.5%	46.9%
0.0%	46.5%	0.0%
Seasonal Averages		
11,710	11,607	11,658
33.90	34.17	34.03
0.00	5.64	2.82



Load Research Cost of Service Data  
Test Year Ended December 31, 2010

\*\*\* DUSK TO DAWN \*\*\*

SUMMER (May-Oct)	WINTER (Nov-Apr)	ANNUAL
6.0	6.0	6.0

Summation Ind Max by Season
6.0
6.0
6.0

Class Peak by Season
6.0
6.0

Coincident Peak by Season
6.0

Energy Summation by Season
2,210
18.1%
10,000
81.9%
12,210

Customer Averages by Season
8,569
8,534

Seasonal Factors
0.000
46.5%
46.5%
0.0%

Seasonal Averages
237
0.70
0.00

Jan 10	Feb 10	Mar 10	Apr 10	May 10	Jun 10	Jul 10	Aug 10	Sep 10	Oct 10	Nov 10	Dec 10
--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------

SUMMATION IND MAX (MW)
Non-Timed
6.0
6.0
6.0

CLASS PEAK (MW)
On-Peak
6.0
6.0

COINCIDENT (MW)
System
Time
25th@0800
23rd@0800
10th@0800
30th@1700
21st@1700
15th@1700
24th@1600
3rd@1700
1st@1600
30th@0800
31st@1900

ENERGY (MWH)
On-Peak
%
Off-Peak
%
Total

CUSTOMERS
Monthly Count
8,639
8,557
8,611
8,623
8,621
8,595
8,594
8,606
8,585
8,412
8,399
8,376

FACTORS
Coincident Factor (CP)
Load Factor (Max) %
Load Factor (NCP) %
Load Factor (CP) %

CUSTOMER AVERAGES
Energy Use (kWh)
Ind. Max Demand (kW)
Coincident Demand (kW)

TOU Periods - All Months: On-Peak 11 am - 9 pm, M-F Off-Peak 9 pm - 11 am, M-F & All Weekends

**ARIZONA PUBLIC SERVICE COMPANY  
2011 RESOURCE PLANNING ANNUAL FILING  
FOR HISTORICAL YEAR 2010**

**Tab III**

**R14-2-703 Section A.3**

Attached is the number of customers by customer class for each of the previous 10 years.

ARIZONA PUBLIC SERVICE COMPANY  
2011 RESOURCE PLANNING ANNUAL FILING  
FOR HISTORICAL YEAR 2010

Tab III

R14-2-203 Section A.3 - Customers by Customer Class for Previous 10 Years

Customer Class	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Residential	776,339	801,801	828,366	859,069	896,472	936,464	966,013	977,944	983,539	989,989
Commercial	93,499	95,575	98,424	102,393	106,374	110,547	115,304	118,945	120,305	120,372
Industrial and Irrigation	3,686	3,671	3,681	3,730	3,794	3,871	3,927	3,933	3,857	3,784
Public Street Lighting	780	759	778	794	809	831	913	919	918	1,001
Other Public Authorities	233	223	210	199	191	182	170	164	162	163

**ARIZONA PUBLIC SERVICE COMPANY  
2011 RESOURCE PLANNING ANNUAL FILING  
FOR HISTORICAL YEAR 2010**

**Tab IV**

**R14-2-703 Section: A.4**

Reduction in load (kilowatt and kilowatt-hours) in the previous calendar year  
due to existing demand management measures, by type of management measure.

**APS DSM Electric Savings  
January - December 2010**

<b>DSM Program</b>	<b>Net Savings MW</b>	<b>Net Annual MWh Savings</b>	<b>Gross Savings MW</b>	<b>Gross Annual MWh Savings</b>
<b>Residential</b>				
Low Income	0.4	1,286	0.4	1,286
Res Existing Homes HVAC	9.6	11,959	16.7	16,081
Res New Home Construction	3.8	5,635	3.4	5,122
Consumer Products	11.0	117,922	14.1	151,045
Appliance Recycling	1.2	8,508	2.0	13,947
<b>Totals for Residential</b>	<b>26.0</b>	<b>145,310</b>	<b>36.6</b>	<b>187,481</b>
<b>Non-Residential</b>				
Large Existing Facilities	12.3	117,260	13.2	127,772
Large Non Res New Const	1.9	14,836	2.9	26,530
Small Business	3.3	19,181	3.7	21,404
Energy Information Svcs	0.1	619	0.1	619
Schools	2.4	22,301	2.8	25,271
<b>Total for Non-Residential</b>	<b>20.0</b>	<b>174,197</b>	<b>22.7</b>	<b>201,596</b>
<b>Total</b>	<b>46.0</b>	<b>319,507</b>	<b>59.3</b>	<b>389,077</b>



**ARIZONA PUBLIC SERVICE COMPANY  
2011 RESOURCE PLANNING ANNUAL FILING  
FOR HISTORICAL YEAR 2010**

**Tab V**

**R14-2-703 Sections B.1.a,b,c,d,e,f,g,h,i,j,k,l,m,n,o,p,q,r**

Portions of this information are competitively confidential and have been redacted. An unredacted version is being provided to Staff pursuant to an executed Protective Agreement.

Tab V  
R142-703 Section: B.1.a, b, c, d, e, f, g, h, i, l, m, n, o  
2010 GENERATING UNIT INFORMATION

B.1	PLANT	(B.1.a)		(B.1.b)	(B.1.c)	(B.1.d)		(B.1.e)	(B.1.f)		(B.1.g)		(B.1.h) (N7)		(B.1.i)	(B.1.j)	(B.1.k)		(B.1.l)	(B.1.m)		(B.1.n)	(B.1.o)
		IN SERVICE	BOOK LIFE	TYPE OF UNIT OR CONTRACT	(APR SHARE) CAPACITY MW	Summer	Winter		AVERAGE HEAT RATE BTU/KWH	HEAT RATE BTU/KWH Coal/Oil/Nuclear	HEAT RATE BTU/KWH Gas	FUEL COSTS \$/MBTU	VARIABLE O & M \$/MWH To Minimum	VARIABLE O & M \$/MWH Over Minimum						MINIMUM CAPACITY GAS/OIL	MINIMUM CAPACITY COAL/NUCLEAR	UNIT MUST BE RUN IF AVAILABLE	
Palo Verde	Unit 1	1960	2024		391.5	382 (N5)	382 (N5)								Uranium				381.5			Yes	Base load
	Unit 2	1966	2025		382.4	382 (N5)	382 (N5)								Uranium				382.4			Yes	Base load
	Unit 3	1968	2027		381.8	382 (N5)	382 (N5)								Uranium				381.8			Yes	Base load
	Four Corners																						
Unit 1	Unit 1	1963	2016	Steam	170	170	170								Coal				80				Base load
	Unit 2	1963	2016	Steam	170	170	170								Coal				80				Base load
	Unit 3	1964	2016	Steam	220	220	220								Coal				100				Base load
	Unit 4	1969	2031	Steam	115	115	115								Coal				60				Base load
Cholla	Unit 1	1970	2031	Steam	115	115	115.5								Coal				60				Base load
	Unit 2	1962	2017	Steam	110	110	110								Coal				30				Base load
	Unit 3	1978	2033	Steam	260	260	280								Coal				75				Base load
	Unit 4	1980	2035	Steam	271	271	271								Coal				75				Base load
Navajo	Unit 1	1974	2026	Steam	105	105	105								Coal				50				Base load
	Unit 2	1975	2026	Steam	105	105	105								Coal				50				Base load
	Unit 3	1976	2026	Steam	105	105	105								Coal				50				Base load
	Unit 4	1976	2026	Steam	105	105	105								Coal				50				Base load
West Phoenix	CT 1	1972	2017	CT	55	50	62								Gas				4				Peaking
	CT 2	1973	2017	CT	55	50	62								Gas				4				Peaking
	CT 3	1976	2031	Combined Cycle	88	85	92								Gas				10				Intermediate
	CT 4	1976	2031	Combined Cycle	88	85	92								Gas				10				Intermediate
Ocotillo	CT 1	2001	2033	Combined Cycle	117	107	120								Gas				77				Intermediate
	CT 2	2003	2033	Combined Cycle	506	490	506								Gas				270				Intermediate
	CT 3	2003	2033	Combined Cycle	506	490	506								Gas				270				Intermediate
	CT 4	2003	2033	Combined Cycle	506	490	506								Gas				270				Intermediate
Redhawk	Unit 1 CT	1960	2020	Steam	110	110	110								Gas				20				Peaking
	Unit 2 CT	1960	2020	Steam	110	110	110								Gas				20				Peaking
	Unit 3 CT	1972	2017	CT	55	50	62								Gas				4				Peaking
	Unit 4 CT	1973	2017	CT	55	50	62								Gas				4				Peaking
Saguaro	Unit 1 ST	1954	2014	Steam	110/110	110	110								Gas/Oil				20				Peaking
	Unit 2 ST	1955	2014	Steam	100/100	100	100								Gas/Oil				20				Peaking
	Unit 3 CT	1972	2017	CT	55/54 (N3)	50	62								Gas/Oil				4				Peaking
	Unit 4 CT	1973	2017	CT	55/54 (N3)	50	62								Gas/Oil				4				Peaking
Sundance	Unit 1 CT	2002	2039	CT	42	41	44								Gas				20				Peaking
	Unit 2 CT	2002	2039	CT	42	41	44								Gas				20				Peaking
	Unit 3 CT	2002	2039	CT	42	41	44								Gas				20				Peaking
	Unit 4 CT	2002	2039	CT	42	41	44								Gas				20				Peaking
Yucca	Unit 1 CT	1971	2016	CT	19/19 (N3)	18	22								Oil				2				Peaking
	Unit 2 CT	1971	2016	CT	19/19 (N3)	18	22								Oil				2				Peaking
	Unit 3 CT	1973	2018	CT	55/54 (N3)	52	61								Oil				5				Peaking
	Unit 4 CT	1974	2019	CT	54	51	61								Oil				5				Peaking
Daguerre	Unit 1 CT	2008	2045	CT	48	47	49								Gas				20				Peaking
	Unit 2 CT	2008	2045	CT	48	47	49								Gas				20				Peaking
	Unit 3 CT	2008	2045	CT	48	47	49								Gas				20				Peaking
	Unit 4 CT	2008	2045	CT	48	47	49								Gas				20				Peaking

NOTES:  
1) All data is based on historical information, unless otherwise indicated.  
2) Avg. fuel cost (item o) is based on all fuel expenses reported in EERC Form 1.  
3) First number indicates net maximum capacity on natural gas; second number indicates net maximum capacity on residual oil.  
4) Summer and winter net maximum capacities are based on gas firing when applicable (i.e., Saguaro and Yucca).  
5) Net maximum capacity based on Maximum Dependable Capacity.  
6) Unit cost adjusted to allocate the oil over each generating unit and its respective oil burn.  
7) Variable O&M \$/MWH to minimum (item n) for the CTs represents total start-up dollars, not \$/MWH.

**ARIZONA PUBLIC SERVICE COMPANY  
2011 INTEGRATED RESOURCE PLANNING ANNUAL FILING  
FOR HISTORICAL YEAR 2010**

R14-2-703 Section: B.1.b,c,d,f,h,i,k,&m

Tab V

**2010 Purchased Power Information <sup>1</sup>**

(B.1.a)	(B.1.b)	(B.1.m)	(B.1.c/B.1.d)	(B.1.f)	(B.1.i)	(B.1.k)	(B.1.h)	
Company	In-service date and book life or contract period	Type of generating unit or contract	Minimum Capacity (MW)	Maximum Contract Capacity (MW)	Average Heat Rate (BTU/kWh)	Average Energy Cost 2010 (\$/MWh)	Annual Demand Charge (\$)	Var O&M (\$/MWh)
Salt River Project (Schedule "A") Contingent Valley Mountain	9/15/1955 - 6/15/2010	Requirement	234	242				
			62	62				
			142	150				
			30	30				
Salt River Project (Eastern Area)	6/15/2010 - 6/14/2020	WSPP Agreement	0	60				
PAC Exchange	9/21/1990 - 10/31/2020	Exchange	n/a	480				
CE Turbo LLC <sup>2</sup>	1/27/2006 - 12/31/2029	Geothermal	0	12				
Gila River Power LP	6/1/2007 - 5/31/2017	Tolling Agreement	360	515				
Aragonne Wind LLC <sup>2</sup>	12/29/2006 - 12/31/2026	Wind	0	90				
Snowflake White Mountain <sup>2</sup>	6/10/2008 - 5/15/2023	Biomass	0	14.50				
Snowflake White Mountain <sup>2</sup>	9/1/2010 - 8/31/2011	Biomass	0	10.00				
High Lonesome Wind Ranch, LLC <sup>2</sup>	7/18/2009 - 7/18/2039	Wind	0	100				
Glendale Energy, LLC <sup>2</sup>	1/13/2010 - 1/13/2030	Landfill Gas	0	2.86				
City of Asusa Exchange	1/1/2010 - 12/31/2010	WSPP Agreement	30	30				

Notes:

- 1 Reflects contracts greater than or equal to 1 year in duration.
- 2 Renewable energy contracts.

**ARIZONA PUBLIC SERVICE COMPANY  
2011 RESOURCE PLANNING ANNUAL FILING  
FOR HISTORICAL YEAR 2010**

**Tab V**

**R14-2-703 Section: B.1.p**

Environmental impacts, including air emission quantities (in metric tons or pounds) and rates (in quantities per megawatt-hour) for carbon dioxide, nitrogen oxides, sulfur dioxide, mercury, particulates, and other air emissions subject to current or expected future environmental regulation

**2010 Unit Emissions Rate (lb/MWH based on Ownership)**

Plant	Unit	SO <sub>2</sub>	NO <sub>x</sub>	CO <sub>2</sub>	PM <sub>10</sub>	CO	VOC	Pb*	Hg*	MWH
<b>Four Corners</b>	1	1.38	8.65	2,277	0.19	0.31	0.0015	0.042	0.080	1,341,888
	2	1.28	7.06	2,264	0.22	0.31	0.0015	0.042	0.080	1,206,896
	3	1.46	7.19	2,543	0.29	0.30	0.0015	0.061	0.078	1,665,276
	4	1.60	4.11	1,872	0.06	0.28	0.0014	0.018	0.019	584,982
	5	1.73	4.81	1,973	0.08	0.28	0.0012	0.018	0.019	880,095
	<b>Plant</b>	<b>1.46</b>	<b>6.82</b>	<b>2,263</b>	<b>0.19</b>	<b>0.30</b>	<b>0.0014</b>	<b>0.041</b>	<b>0.064</b>	<b>5,679,137</b>
<b>Navajo</b>	1	0.59	4.15	2,182	0.30	0.23	0.028	0.058	0.029	794,243
	2	0.63	2.19	2,038	0.29	0.23	0.027	0.057	0.029	619,915
	3	0.60	2.14	2,089	0.29	0.23	0.027	0.057	0.028	790,150
	<b>Plant</b>	<b>0.60</b>	<b>2.87</b>	<b>2,108</b>	<b>0.29</b>	<b>0.23</b>	<b>0.028</b>	<b>0.057</b>	<b>0.029</b>	<b>2,204,308</b>
<b>Cholla</b>	1	1.80	2.44	2,507	0.062	0.27	0.032	0.029	0.052	923,418
	2	2.10	3.37	2,231	0.30	0.27	0.032	0.013	0.052	1,591,537
	3	1.87	2.44	2,505	0.17	0.27	0.032	0.013	0.055	1,984,965
	<b>Plant</b>	<b>1.94</b>	<b>2.77</b>	<b>2,408</b>	<b>0.19</b>	<b>0.27</b>	<b>0.032</b>	<b>0.016</b>	<b>0.053</b>	<b>4,499,920</b>
<b>Ocotillo</b>	1	0.008	1.2	1,549	0.087	0.27	0.063	0.0057	0.0029	26,110
	2	0.008	2.0	1,573	0.091	0.29	0.066	0.0060	0.0030	25,533
	CT1	0.010	5.6	2,036	0.12	1.4	0.037	0.0086	0.0044	2,229

**ARIZONA PUBLIC SERVICE COMPANY**  
**2011 RESOURCE PLANNING ANNUAL FILING**  
**FOR HISTORICAL YEAR 2010**

Tab V

**R14-2-703 Section: B.1.p**

Environmental impacts, including air emission quantities (in metric tons or pounds) and rates (in quantities per megawatt-hour) for carbon dioxide, nitrogen oxides, sulfur dioxide, mercury, particulates, and other air emissions subject to current or expected future environmental regulation

2010 Unit Emissions Rate (lb/MWH based on Ownership)

Plant	Unit	SO <sub>2</sub>	NO <sub>x</sub>	CO <sub>2</sub>	PM <sub>10</sub>	CO	VOC	Pb*	Hg*	MWH
	CT2	0.0085	4.5	1,654	0.094	1.2	0.030	0.0069	0.0035	1,576
	<b>Plant</b>	<b>0.0079</b>	<b>1.8</b>	<b>1,583</b>	<b>0.090</b>	<b>0.35</b>	<b>0.062</b>	<b>0.0060</b>	<b>0.0030</b>	<b>55,448</b>
<b>West Phoenix</b>	CC1	0.0067	3.3	1,299	0.0713	0.14	0.023	0.0055	0.0028	114,414
	CC2	0.0068	3.3	1,323	0.0726	0.15	0.024	0.0056	0.0028	87,414
	CC3	0.0048	0.45	1,225	0.0096	0.89	0.10	0.0050	0.0026	83,211
	CC4	0.0055	0.31	1,068	0.011	0.060	0.042	0.0043	0.0022	109,711
	CC5	0.0047	0.15	932	0.0076	0.087	0.018	0.0039	0.0020	1,321,432
	CT1	0.011	5.8	2,098	0.12	1.5	0.038	0.0088	0.0045	2,188
	CT2	0.014	7.4	2,682	0.15	1.9	0.048	0.011	0.0057	1,211
	<b>Plant</b>	<b>0.0050</b>	<b>0.56</b>	<b>1,002</b>	<b>0.016</b>	<b>0.13</b>	<b>0.024</b>	<b>0.0042</b>	<b>0.0021</b>	<b>1,719,581</b>
<b>Redhawk</b>	CC1	0.0044	0.089	878	0.026	0.10	0.0059	0.0037	0.0019	1,567,016
	CC2	0.0045	0.094	897	0.024	0.10	0.0022	0.0037	0.0019	1,808,996
	<b>Plant</b>	<b>0.0045</b>	<b>0.092</b>	<b>888</b>	<b>0.025</b>	<b>0.10</b>	<b>0.0039</b>	<b>0.0037</b>	<b>0.0019</b>	<b>3,376,012</b>
<b>Yucca</b>	CT1	0.0098	5.2	1,909	0.11	1.3	0.034	0.0080	0.0041	542
	CT2	0.010	5.5	1,992	0.11	1.4	0.036	0.0084	0.0043	238
	CT3	0.010	5.5	1,995	0.11	1.4	0.036	0.0084	0.0043	4,008
	CT4	1.7	36.8	6,746	0.48	0.14	0.017	0.0205	0.0502	420

**ARIZONA PUBLIC SERVICE COMPANY**  
**2011 RESOURCE PLANNING ANNUAL FILING**  
**FOR HISTORICAL YEAR 2010**

Tab V

R14-2-703 Section: B.1.p

Environmental impacts, including air emission quantities (in metric tons or pounds) and rates (in quantities per megawatt-hour) for carbon dioxide, nitrogen oxides, sulfur dioxide, mercury, particulates, and other air emissions subject to current or expected future environmental regulation

2010 Unit Emissions Rate (lb/MWH based on Ownership)

Plant	Unit	SO <sub>2</sub>	NO <sub>x</sub>	CO <sub>2</sub>	PM <sub>10</sub>	CO	VOC	Pb*	Hg*	MWH
Saguaro	CT5	0.0076	0.31	1,457	0.060	0.020	0.024	0.0055	0.0028	39,523
	CT6	0.0068	0.26	1,362	0.059	0.012	0.022	0.0051	0.0026	44,266
	Plant	0.015	0.73	1,463	0.064	0.090	0.023	0.0055	0.0030	88,997
	CT1	0.013	7.0	2,542	0.14	1.8	0.046	0.011	0.0054	621
	CT2	0.016	8.5	3,108	0.18	2.2	0.056	0.013	0.0067	437
Douglas	CT3	0.0085	0.74	1,561	0.049	0.17	0.050	0.0073	0.0037	7,029
	Plant	0.0093	1.6	1,720	0.064	0.40	0.050	0.0079	0.0040	8,087
	CT1	0.87	18.6	3,401	0.24	0.070	0.0086	0.30	0.025	359
Sundance	Plant	0.87	18.6	3,401	0.24	0.070	0.0086	0.30	0.03	359
	All	0.0062	0.29	1,309	0.019	0.13	0.037	0.0051	0.0026	107,797
	Plant	0.0062	0.29	1,309	0.019	0.13	0.037	0.0051	0.0026	107,797
Nuclear	All	0	0	0	0	0	0	0	0	9,599,179
Hydro	All	0	0	0	0	0	0	0	0	0
Biomass	All	0	0	0	0	0	0	0	0	0
Solar	All	0	0	0	0	0	0	0	0	8,737

**ARIZONA PUBLIC SERVICE COMPANY  
2011 RESOURCE PLANNING ANNUAL FILING  
FOR HISTORICAL YEAR 2010**

**Tab V**

**R14-2-703 Section: B.1.p**

Environmental impacts, including air emission quantities (in metric tons or pounds) and rates (in quantities per megawatt-hour) for carbon dioxide, nitrogen oxides, sulfur dioxide, mercury, particulates, and other air emissions subject to current or expected future environmental regulation

Plant	Unit	2010 Unit Emissions Rate (lb/MWH based on Ownership)								
		SO2	NOx	CO2	PM10	CO	VOC	Pb*	Hg*	MWH
TOTAL COAL**		1.5	4.6	2,288	0.21	0.27	0.017	0.035	0.054	12,383,365
TOTAL GAS/OIL**		0.0050	0.28	951	0.023	0.12	0.012	0.0039	0.0020	5,356,281
TOTAL FOSSIL**		1.0	3.3	1,885	0.15	0.23	0.016	0.026	0.038	17,739,646
TOTAL APS *lb/GWH		0.67	2.2	1,223	0.10	0.15	0.010	0.017	0.025	27,347,562

\*Units are measured in lb/GWh

\*\*Does not include biomass

**ARIZONA PUBLIC SERVICE COMPANY**  
**2011 RESOURCE PLANNING ANNUAL FILING**  
**FOR HISTORICAL YEAR 2010**

Tab V

**R14-2-703 Section: B.1.p**

Environmental impacts, including air emission quantities (in metric tons or pounds) and rates (in quantities per megawatt-hour) for carbon dioxide, nitrogen oxides, sulfur dioxide, mercury, particulates, and other air emissions subject to current or expected future environmental regulation

2010 Unit Emissions Rate (Tons per year based on Ownership)										
Plant	Unit	SO <sub>2</sub>	NO <sub>x</sub>	CO <sub>2</sub>	PM <sub>10</sub>	CO	VOC	Pb	Hg	MWH
Four Corners	1	926.7	5,805.1	1,527,925	126.5	207.4	1.0	0.028	0.054	1,341,888
	2	772.5	4,261.8	1,366,041	133.2	186.4	0.92	0.025	0.048	1,206,896
	3	1,214.6	5,985.1	2,117,119	237.3	251.8	1.3	0.050	0.065	1,665,276
	4	466.9	1,201.1	547,612	18.7	81.5	0.40	0.0054	0.0056	584,982
	5	759.1	2,117.3	868,382	33.9	121.2	0.51	0.0081	0.0085	880,095
	Plant	4,139.8	19,370.5	6,427,078	549.6	848.3	4.1	0.12	0.18	5,679,137
Navajo	1	232.6	1,646.6	866,356	118.5	92.2	11.1	0.023	0.012	794,243
	2	194.0	677.3	631,771	90.5	70.6	8.5	0.018	0.0088	619,915
	3	238.8	844.6	825,274	115.2	89.7	10.8	0.022	0.011	790,150
	Plant	665.5	3,168.5	2,323,401	324.2	252.6	30.4	0.063	0.032	2,204,308
Cholla	1	831.4	1,128.1	1,157,384	28.7	122.5	14.8	0.013	0.024	923,418
	2	1,672.5	2,681.6	1,775,046	239.3	211.4	25.6	0.010	0.042	1,591,537
	3	1,858.9	2,422.9	2,485,913	166.0	265.8	32.2	0.013	0.054	1,984,965
	Plant	4,362.8	6,232.6	5,418,344	433.9	599.7	72.6	0.036	0.12	4,499,920
Ocotillo	1	0.1	15.3	20,227	1.1	3.6	0.82	0.000074	0.000038	26,110
	2	0.1	25.3	20,083	1.2	3.6	0.84	0.000076	0.000039	25,533
	CT1	0.012	6.2	2,270	0.13	1.6	0.041	0.000010	0.000005	2,229
	CT2	0.0067	3.6	1,303	0.07	0.92	0.023	0.000005	0.000003	1,576
	Plant	0.2	50.5	43,883	2.5	9.7	1.7	0.00017	0.000084	55,448
W.Phx.	CC1	0.38	188.0	74,336	4.1	8.3	1.3	0.00031	0.00016	114,414
	CC2	0.30	146.2	57,829	3.2	6.4	1.0	0.00024	0.00012	87,414



**ARIZONA PUBLIC SERVICE COMPANY**  
**2011 RESOURCE PLANNING ANNUAL FILING**  
**FOR HISTORICAL YEAR 2010**

Tab V

**R14-2-703 Section: B.1.p**

Environmental impacts, including air emission quantities (in metric tons or pounds) and rates (in quantities per megawatt-hour) for carbon dioxide, nitrogen oxides, sulfur dioxide, mercury, particulates, and other air emissions subject to current or expected future environmental regulation

Plant	Unit	2010 Unit Emissions Rate (Tons per year based on Ownership)										MWH
		SO2	NOx	CO2	PM10	CO	VOC	Pb	Hg			
Redhawk	CC3	0.20	18.9	50,982	0.4	37.0	4.2	0.00021	0.00011			83,211
	CC4	0.30	16.8	58,573	0.6	3.3	2.3	0.00024	0.00012			109,711
	CC5	3.1	98.4	615,585	5.0	57.4	11.6	0.0026	0.0013			1,321,432
	CT1	0.012	6.3	2,295	0.13	1.6	0.041	0.00010	0.000005			2,188
	CT2	0.008	4.5	1,624	0.09	1.1	0.029	0.000007	0.000003			1,211
	Plant	4.3	479.0	861,224	13.5	115.2	20.5	0.0036	0.0018			1,719,581
Redhawk	CC1	3.5	69.4	687,802	20.0	81.1	4.6	0.0029	0.0015			1,567,016
	CC2	4.1	85.3	811,493	21.9	90.6	2.0	0.0033	0.0017			1,808,996
	Plant	7.6	154.8	1,499,294	41.9	171.7	6.6	0.0062	0.0032			3,376,012
Yucca	Axis	0	0	0	0	0	0	0	0			0
	CT1	0.0027	1.4	517	0.029	0.36	0.0093	0.000002	0.000001			542
	CT2	0.0012	0.65	237	0.013	0.17	0.0043	0.000001	0.000001			238
	CT3	0.021	11.0	3,998	0.23	2.8	0.072	0.000017	0.000009			4,008
	CT4	0.36	7.7	1,417	0.10	0.029	0.0036	0.000004	0.000011			420
	CT5	0.15	6.1	28,787	1.2	0.40	0.47	0.00011	0.000056			39,523
	CT6	0.15	5.8	30,155	1.3	0.26	0.48	0.00011	0.000057			44,266
	Plant	0.69	32.7	65,110	2.8	4.0	1.0	0.00025	0.00013			88,997
Saguaro	1	0	0.00088	4	0	0	0	0	0			0
	2	0	0.0081	56	0	0	0	0	0			0

**ARIZONA PUBLIC SERVICE COMPANY  
2011 RESOURCE PLANNING ANNUAL FILING  
FOR HISTORICAL YEAR 2010**

Tab V

**R14-2-703 Section: B.1.p**

Environmental impacts, including air emission quantities (in metric tons or pounds) and rates (in quantities per megawatt-hour) for carbon dioxide, nitrogen oxides, sulfur dioxide, mercury, particulates, and other air emissions subject to current or expected future environmental regulation

2010 Unit Emissions Rate (Tons per year based on Ownership)										
Plant	Unit	SO <sub>2</sub>	NO <sub>x</sub>	CO <sub>2</sub>	PM <sub>10</sub>	CO	VOC	Pb	Hg	MWH
	CT1	0.0041	2.2	789	0.045	0.55	0.014	0.000003	0.000002	621
	CT2	0.0035	1.9	679	0.038	0.48	0.012	0.000003	0.000001	437
	CT3	0.03	2.6	5,488	0.17	0.6	0.18	0.000026	0.000013	7,029
	Plant	0.038	6.6	7,016	0.26	1.6	0.20	0.000032	0.000016	8,087
Douglas	CT1	0.16	3.3	610	0.044	0.012	0.0016	0.000053	0.000005	359
	Plant	0.16	3.3	610	0.0	0.0	0.0	0.000053	0.000005	359
Sundance	All	0.33	15.9	70,531	1.0	6.8	2.0	0.00027	0.00014	107,797
	Plant	0.33	15.9	70,531	1.0	6.8	2.0	0.00027	0.00014	107,797
Nuclear Hydro Biomass Solar	All	0	0	0	0	0	0	0	0	9,599,179
	All	0	0	0	0	0	0	0	0	0
	All	0	0	0	0	0	0	0	0	0
	All	0	0	0	0	0	0	0	0	8,737
TOTAL COAL**		9,168.1	28,771.5	14,168,823	1,307.8	1,700.5	107.1	0.22	0.33	12,383,365
TOTAL GAS/OIL**		13.3	742.8	2,547,669	62.0	309.1	32.1	0.011	0.0054	5,356,281
TOTAL FOSSIL**		9,181.4	29,514.3	16,716,492	1,369.8	2,009.6	139.2	0.23	0.34	17,739,646
TOTAL		9,181.4	29,514.3	16,716,492	1,369.8	2,009.6	139.2	0.23	0.34	27,347,562

\*Units are measured in lb/GWh

\*\*Does not include biomass

**ARIZONA PUBLIC SERVICE COMPANY  
2011 RESOURCE PLANNING ANNUAL FILING  
FOR HISTORICAL YEAR 2010**

**Tab V**

**R14-2-703 Section: B.1.q**

Water consumption quantities and rates

2010 Generation Water Use		
	Acre Feet Consumed	Gallons/MWH
Cholla	16,601	760
Four Corners	21,787	511
Ocotillo	198	1,164*
Palo Verde Groundwater	2,137	22
Palo Verde Effluent	72,511	757
Palo Verde Total	74,648	780
Redhawk Groundwater	426	41
Redhawk Effluent	2,843	274
Redhawk Total	3,269	316
Saguaro	153	5,258*
Sundance	91	275
West Phoenix	2,150	407
Yucca	715	553
<b>Total APS Generation</b>	<b>119,612</b>	<b>673</b>

\*Ocotillo and Saguaro are unique in the APS fleet as peaking facilities which produce energy typically only when energy demands are high. However, they require using water on a continual basis to maintain systems on site. The G/MWH rates for these facilities are misleading due to the relatively small quantities of energy generated. In absolute terms, they only account for 0.25% of APS water usage in 2010 and are critical to supporting APS obligation to serve our customers.

<sup>1</sup> All numbers represent total plant use and not APS share of ownership.

**ARIZONA PUBLIC SERVICE COMPANY  
2011 RESOURCE PLANNING ANNUAL FILING  
FOR HISTORICAL YEAR 2010**

**Tab V**

**R14-2-703 Section: B.1.r**

Tons of coal ash produced per generating unit - 2010<sup>1</sup>

		<u>Tons Coal Ash</u>
Cholla	Unit 1	72,298
	Unit 2	129,102
	Unit 3	161,652
	Unit 4	214,239
	Total Cholla	577,291
Four Corners	Units 1,2,3	578,233
	Units 4,5	1,206,345
	Total Four Corners	1,784,578
		<hr/>
Total Company		2,361,869

<sup>1</sup> Numbers represent APS operated coal plants and do not reflect APS's share of ownership.

ARIZONA PUBLIC SERVICE COMPANY  
2011 RESOURCE PLANNING ANNUAL FILING  
FOR HISTORICAL YEAR 2010

Tab V

R14-2-703 Section: B.1.p,q

2010 Emissions/Water Use (Purchase Power Agreements)<sup>1</sup>

lb/MWH  
(B.1.p)

Generation Water Use  
(B.1.q)

Plant	Unit	SO <sub>2</sub>	NO <sub>x</sub>	CO <sub>2</sub>	PM <sub>10</sub>	CO	VOC	Pb*	Hg*	Annual MWH	Acre Feet Consumed	Gallons/MWh
Aragonne	1	0	0	0	0	0	0	0	0	267,551	0	0
	Plant	0	0	0	0	0	0	0	0	267,551		
CE Turbo	1	0	0	0	0	0	0	0	0	14,842	0	0
	Plant	0	0	0	0	0	0	0	0	14,842		
Dynergy Arlington Valley, LLC <sup>2</sup>	1	0.007	0.094	1,426	0.041	0.032	0.015	0.00	0.00	335,818	0	0
	2	0.007	0.092	1,430	0.038	0.027	0.012	0.00	0.00	350,359	0	0
	STG <sup>3</sup>	0	0	0	0	0	0	0	0	464,739	886	621
	Plant	0.004	0.055	852	0.023	0.018	0.008	0.00	0.00	1,150,916		
Gila River	4A	0.0042	0.11	826	0.14	0.30	0.0066	0	0	904,773	820	295
	4B	0.042	1.2	825	0.14	0.22	0.0063	0	0	949,452	860	295
Glendale Energy <sup>4</sup>	Plant	0.024	0.66	825	0.14	0.26	0.0065	0	0	1,854,225		
	1	0	1.3	0	0	7.9	0.70	0	0	8,780	0	0
High Lonesome <sup>5</sup>	2	0	1.5	0	0	7.9	0.55	0	0	9,162	0	0
	Plant	0	1.4	0	0	7.9	0.62	0	0	17,942		
High Lonesome <sup>5</sup>	1	0	0	0	0	0	0	0	0	264,363.70	0	0

ARIZONA PUBLIC SERVICE COMPANY  
2011 RESOURCE PLANNING ANNUAL FILING  
FOR HISTORICAL YEAR 2010

Tab V

R14-2-703 Section: B.1.p.q

2010 Emissions/Water Use (Purchase Power Agreements)<sup>1</sup>

Plant	Unit	lb/MWH (B.1.p)							Generation Water Use (B.1.q)			
		SO <sub>2</sub>	NO <sub>x</sub>	CO <sub>2</sub>	PM <sub>10</sub>	CO	VOC	Pb*	Hg*	Annual MWH	Acre Feet Consumed	Gallons/MWh
<u>Morgan Stanley</u>	Plant	0	0	0	0	0	0	0	0	264,363.66	0	0
	Specific generating unit not identified <sup>6</sup>											
	Specific generating unit not identified <sup>6</sup>											
<u>Salt River Project (Schedule "A")</u>	Specific generating unit not identified <sup>6</sup>											
<u>Salt River Project (Eastern Mining)</u>	Specific generating unit not identified <sup>6</sup>											
<u>Shell</u>	Specific generating unit not identified <sup>6</sup>											
Snowflake White Mountain	1	0.0042	2.3	0	0.057	1.4	0	0	0	179,139	Amount of Water unknown <sup>7</sup>	
	Plant	0.0042	2.3	0	0.057	1.4	0	0	0	179,139		

Notes:

<sup>1</sup> All of the information provided herein has been provided to APS by its respective counterparties. APS can not be responsible for validating any of the information provided herein.

<sup>2</sup> Power was purchased during June 1, 2010 through September 1, 2010.

<sup>3</sup> Steam Turbine Generator.

<sup>4</sup> Glendale Energy does not report CO<sub>2</sub>. It is converted to methane and is not a permit condition for reporting.

<sup>5</sup> Water is trucked to the site for sanitary use; an estimated 30,000 gal in 2010 of potable water was used.

<sup>6</sup> Emissions data is not available because a specific unit can not be identified for this type of transaction.

<sup>7</sup> Water is delivered to the plant from Catalyst Paper via a canal and is not metered.

\* Units are measured in lb/GWh.

ARIZONA PUBLIC SERVICE COMPANY  
2011 RESOURCE PLANNING ANNUAL FILING  
FOR HISTORICAL YEAR 2010

Tab V

R14-2-703 Section: B.1.p.r

2010 Emissions (Purchase Power Agreements)<sup>1</sup>

Total Tons

(B.1.p)

Plant	Unit	SO <sub>2</sub>	NO <sub>x</sub>	CO <sub>2</sub>	PM <sub>10</sub>	CO	VOC	Pb*	Hg*	Annual MWH	(B.1.r) Tons of Coal Ash <sup>2</sup>
Aragonne	1	0	0	0	0	0	0	0	0	267,551	N/A
	Plant	0	0	0	0	0	0	0	0	267,551	N/A
CE Turbo	1	0	0	0	0	0	0	0	0	14,842	N/A
	Plant	0	0	0	0	0	0	0	0	14,842	N/A
Dynergy Arlington Valley, LLC <sup>3</sup>	1	1.2	15.8	239,508	6.9	5.4	2.6	0	0	335,818	N/A
	2	1.3	16.1	250,556	6.6	4.8	2.1	0	0	350,359	N/A
	STG <sup>4</sup>	0	0	0	0	0	0	0	0	464,739	N/A
	Plant	2.5	31.9	490,064	13.5	10.2	4.7	0	0	1,150,916	N/A
Gila River	4A	1.9	51	373,630	63	136	3	0	0	904,773	N/A
	4B	20	560	391,538	66	103	3	0	0	949,452	N/A
	Plant	21.9	611	765,168	129	239	6	0	0	1,854,225	N/A
Glendale Energy <sup>5</sup>	1	0	5.9	0	0	35	3.1	0	0	8,780	N/A
	2	0	6.8	0	0	36	2.5	0	0	9,162	N/A

ARIZONA PUBLIC SERVICE COMPANY  
2011 RESOURCE PLANNING ANNUAL FILING  
FOR HISTORICAL YEAR 2010

Tab V

R14-2-703 Section: B.1.p.r

2010 Emissions (Purchase Power Agreements)<sup>1</sup>

Total Tons

Plant	Unit	(B.1.p)						(B.1.r)			
		SO <sub>2</sub>	NO <sub>x</sub>	CO <sub>2</sub>	PM <sub>10</sub>	CO	VOC	Pb*	Hg*	Annual MWH	Tons of Coal Ash <sup>2</sup>
<u>High Lonesome</u>	Plant	0	12.7	0	0	0	71	5.6	0	0	17,942
	I	0	0	0	0	0	0	0	0	0	264,364
	Plant	0	0	0	0	0	0	0	0	0	264,364
<u>Morgan Stanley</u>	Specific generating unit not identified <sup>6</sup>										
<u>Salt River Project (Schedule "A")</u>	Specific generating unit not identified <sup>6</sup>										
<u>Salt River Project (Eastern Mining)</u>	Specific generating unit not identified <sup>6</sup>										
<u>Shell</u>	Specific generating unit not identified <sup>6</sup>										
<u>Snowflake White Mountain</u>	I	0.38	204	0	Not Reported	122	0	0	0	0	179,139
	Plant	0.38	204	0	Not Reported	122	0	0	0	0	179,139

Notes:

<sup>1</sup> All of the information provided herein has been provided to APS by its respective counterparties. APS can not be responsible for validating any of the information provided herein.

<sup>2</sup> Coal ash is not applicable to these purchase power agreements.

<sup>3</sup> Power was purchased during June 1, 2010 through September 1, 2010.

<sup>4</sup> Steam Turbine Generator.

<sup>5</sup> Glendale Energy does not report CO<sub>2</sub>. It is converted to methane and is not a permit condition for reporting.

<sup>6</sup> Emissions data is not available because a specific unit can not be identified for this type of transaction.

\* Units are measured in lb/GWh.



**ARIZONA PUBLIC SERVICE COMPANY  
2011 RESOURCE PLANNING ANNUAL FILING  
FOR HISTORICAL YEAR 2010**

**Tab VI**

**R14-2-703 Section B.2.a**

**A Description of Generating Unit Commitment Procedures**

Unit and firm purchase power capacity is committed to cover the estimated load requirements plus spinning and regulating reserve requirements in the most economical manner. Generating units are generally committed in order of ascending average full load fuel and incremental O&M cost. Unit minimum on-line and off-line time requirements as well as environmental constraints are included in the dispatch process. Computerized unit commitment software is utilized to select the optimum commitment. This software includes optimization routines, which check the economics of keeping a unit on-line at minimum load when not required during short time periods versus incurring a start-up cost. These routines also check the costs of running peaking units for short peaking periods versus committing larger units which would have to run for longer periods, some of which time would require operation at low, less economical loads. Costs of secondary, higher-cost, flame stabilization fuels necessary for low load operation are also considered. Commitment of individual combustion turbines and combined cycle units also considers the number of hours and start-ups allowed between inspections and overhauls.

Additional items which must be considered during the unit commitment process include jointly owned units which may be requested on-line by their owners, limitation as to the number of gas-fired units which can be operated simultaneously due to gas pressure problems, and the need to operate units for voltage or other problems due to temporary line outages. The Balancing Authority will change the dispatch order if necessary to meet reliability requirements.

A computer model (PCI Software) is used for the short-term commitment process. For longer term planning analysis needs, RTSim a proprietary computer model developed by Simtec Corporation of Madison Wisconsin, and PROMOD IV developed by Ventyx, are utilized.

**ARIZONA PUBLIC SERVICE COMPANY  
2011 RESOURCE PLANNING ANNUAL FILING  
FOR HISTORICAL YEAR 2010**

**Tab VI**

**R14-2-703 Section: B.2.b**

**2010 Production Cost**

Total Power Production expenses for the Calendar Year 2010 including O&M, Fuel and Purchased Power were \$1,476,387,262, of which \$(64,648,036) was related to Deferred Fuel.

Fuel and Purchased Power expenses including interchange for the Calendar Year 2010 were \$1,035,116,508, of which \$(64,648,036) was related to Deferred Fuel.

**ARIZONA PUBLIC SERVICE COMPANY  
2011 RESOURCE PLANNING ANNUAL FILING  
FOR HISTORICAL YEAR 2010**

**Tab VI**

**R14-2-703 Section: B.2.c**

**2010 Reserve Requirement**

The actual Reserve Margin for 2010 was 1023.1 MW or 21.8% at the time of system peak. Total resources and Class A Interruptible exceeded our load and firm off system sales by this amount.

**ARIZONA PUBLIC SERVICE COMPANY  
2011 INTEGRATED RESOURCE PLANNING ANNUAL FILING  
FOR HISTORICAL YEAR 2010**

**Tab VI**

**R14-2-703 Section: B.2.d**

**2010 Spinning Reserve**

The Company maintains spinning reserve in compliance with quotas assigned by the Southwest Reserve Shargin Group for the Calendar Year 2010, these quotas were:

<u>2010</u>	<u>Spinning Reserve Capacity (MW)</u>
January	189
February	187
March	172
April	171
May	189
June	253
July	278
August	271
September	251
October	170
November	180
December	196

**ARIZONA PUBLIC SERVICE COMPANY  
2011 INTEGRATED RESOURCE PLANNING ANNUAL FILING  
FOR HISTORICAL YEAR 2010**

**Tab VI**

**R14-2-703 Section: B.2.e**

**2010**

**Reliability of Generating, Transmission and Distribution Systems**

APS follows the Institute of Electrical and Electronics Engineers (IEEE) 1366 – 2003, "Guide for Electric Power Distribution Reliability Indices" for measuring reliability. Three of the most common indicators used for measuring reliability are SAIFI (System Average Interruption Frequency Index), SAIDI (System Average Interruption Duration Index) and CAIDI (Customer Average Interruption Duration Index). These indicators are calculated with "Major Event Days" excluded, in accordance with Sections 3.13, 4.5 and Annex B.

The data provided below represents the portion of SAIFI, SAIDI, and CAIDI due to Generation, Transmission, and Distribution causes, respectively. The total of all three represent the overall reliability experienced by APS customers.

**Generation Reliability**

SAIFI	0
SAIDI (minutes)	0
CAIDI (minutes)	0

**Transmission  
Reliability**

SAIFI	0.18
SAIDI (minutes)	13
CAIDI (minutes)	14

**Distribution  
Reliability**

SAIFI	0.72
SAIDI (minutes)	63
CAIDI (minutes)	70

**ARIZONA PUBLIC SERVICE COMPANY  
2011 RESOURCE PLANNING ANNUAL FILING  
FOR HISTORICAL YEAR 2010**

**Tab VI**

**R14-2-703 Section: B.2.f**

**2010 Power Purchase and Sales Prices**

Month	Average Purchase Price (\$/MW)	Average Sale Price (\$/MW)
Jan-10	\$55.20	\$51.37
Feb-10	\$57.70	\$54.52
Mar-10	\$57.30	\$51.77
Apr-10	\$57.18	\$39.97
May-10	\$52.98	\$31.15
Jun-10	\$40.47	\$38.05
Jul-10	\$59.92	\$49.27
Aug-10	\$58.81	\$47.54
Sep-10	\$57.09	\$41.61
Oct-10	\$51.49	\$30.46
Nov-10	\$65.14	\$39.12
Dec-10	\$53.58	\$35.61

Note 1: Average purchase price represents all short-term power purchases (less than 3 years) divided by the associated megawatts.

Note 2: Average sale price represents total short-term power sales (less than 3 years) divided by the associated megawatts.

**ARIZONA PUBLIC SERVICE COMPANY  
2011 INTEGRATED RESOURCE PLANNING ANNUAL FILING  
FOR HISTORICAL YEAR 2010**

**Tab VI**

**R14-2-703 Section: B.2.g**

**2010 Energy Losses**

Energy losses for the Calendar Year 2010 were 7.2%.

\*Energy losses shown are exclusive of APS unregulated activities.

**ARIZONA PUBLIC SERVICE COMPANY  
2011 RESOURCE PLANNING ANNUAL FILING  
FOR HISTORICAL YEAR 2010**

**Tab VII**

**R14-2-703 Section B.3**

**Total Interconnected Distributed  
Generation kW**

**A. Total reported for end of 2009:** 159,961.5 kW

**B. Total for 2010 report:**

Total for end of 2009:	159,961.5 kW
Rounding & small load adjustments	-5,248.4 kW
Subtotal:	154,713.1 kW
Plus new projects added in 2010:	35,398.8 kW
Total for 2010 report:	190,111.8 kW



**ARIZONA PUBLIC SERVICE COMPANY  
2010 RESOURCE PLANNING ANNUAL FILING  
FOR HISTORICAL YEAR 2009**

**Tab VIII**

**R14-2-703 Section: B.4**

**An explanation of any resource procurement processes used by the load-serving entity during the previous calendar year that did not include the use of an RFP, including the exception under which the process was used.**

APS had three occasions in 2010 in which a resource procurement process other than the use of an RFP was employed.

On August 26, 2010 APS executed a bilateral agreement with a term of 1 year for 10 MW of additional output from the Snowflake White Mountain Biomass facility. The RFP exception under which that transaction was completed is R14-2-705.B(6). The transaction was necessary for APS to satisfy obligations under the RES rules. This short term agreement ensured additional RECs would be available in 2010 and 2011 for compliance with the RES.

On February 11, 2011 APS executed a bilateral turnkey agreement for the Paloma Project, a 17 MW solar PV project with First Solar under the AZ Sun program. That agreement was the result of bilateral discussions that began in late 2010 as a result of the need for APS to procure a substitute project for another AZ Sun project which encountered significant delays. The RFP exception under which that transaction was completed is R14-2-705.B(6). The transaction was necessary for APS to satisfy obligations under the RES rules. The use of an RFP in this case would not have allowed for timely AZ Sun program implementation. An independent monitor review of the transaction was performed and documented.

On November 8, 2010 APS entered into a bilateral transaction with Southern California Edison (SCE) to acquire SCE's share of Four Corners Units 4 and 5. APS has sought approval of that transaction in other proceedings before the Commission Docket No. E-01345A-10-0474. The RFP exception under which that transaction was completed is R14-2-705.B(5), the transaction presents APS a genuine, unanticipated opportunity to acquire a power supply resource at a clear and significant discount, compared to the cost of acquiring new generating facilities, and will provide unique value to APS's customers. APS has evaluated what exists in the competitive wholesale market, but none of its offerings reasonably compare to the transaction with SCE.